

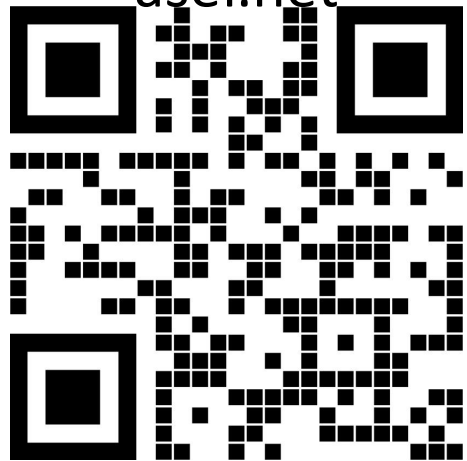


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“Dinamično življenje kavitacije.”



Prof. Dr. Matevž Dular

Univerza v Ljubljani.

Četrtek, 16. februarja, ob 19. uri CET.

Predavanje bo potekalo v Prešernovi dvorani, SAZU (Novi trg 4).

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UL + TU Darmstadt

Raziskovalni projektni vodja
Hidria

2012

Izredni profesor
Fakulteta za strojništvo

2017

Znanstveni svetnik

Redni profesor
Fakulteta za strojništvo

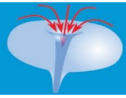
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- **KDAJ?** Na koncu predavanja
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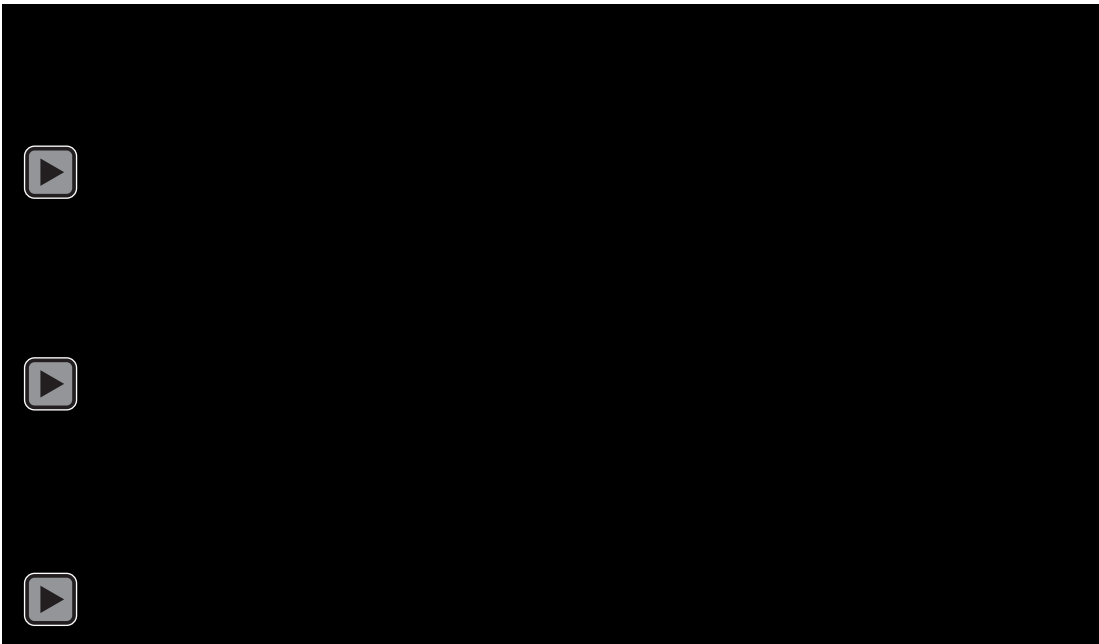




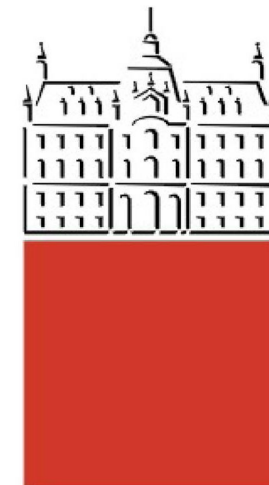
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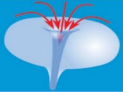
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Dinamično življenje kavitacije



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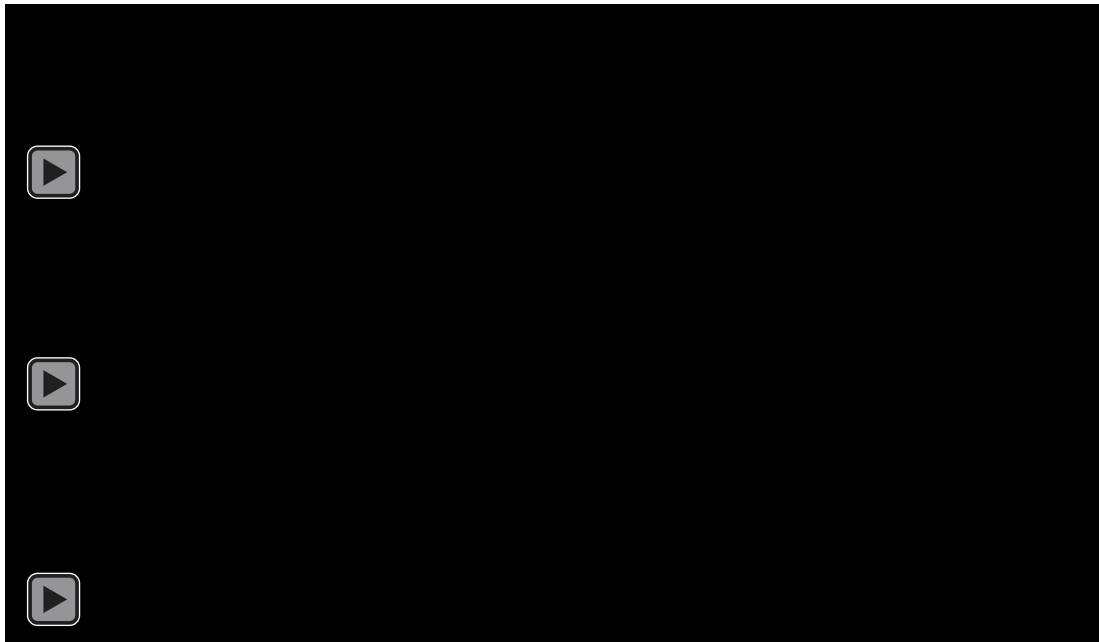




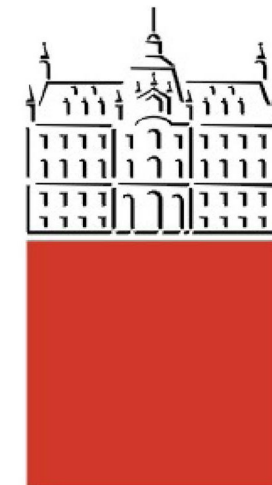
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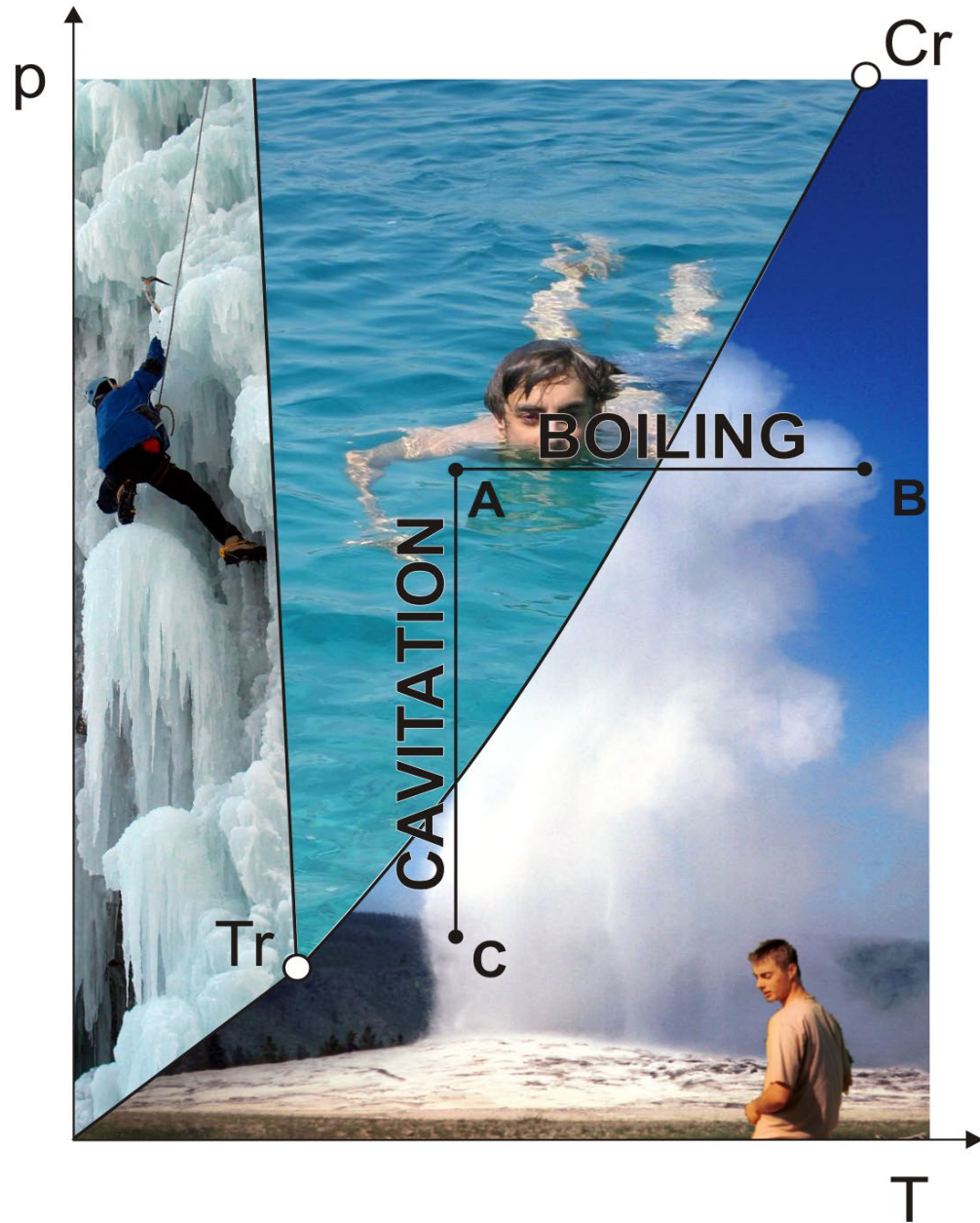
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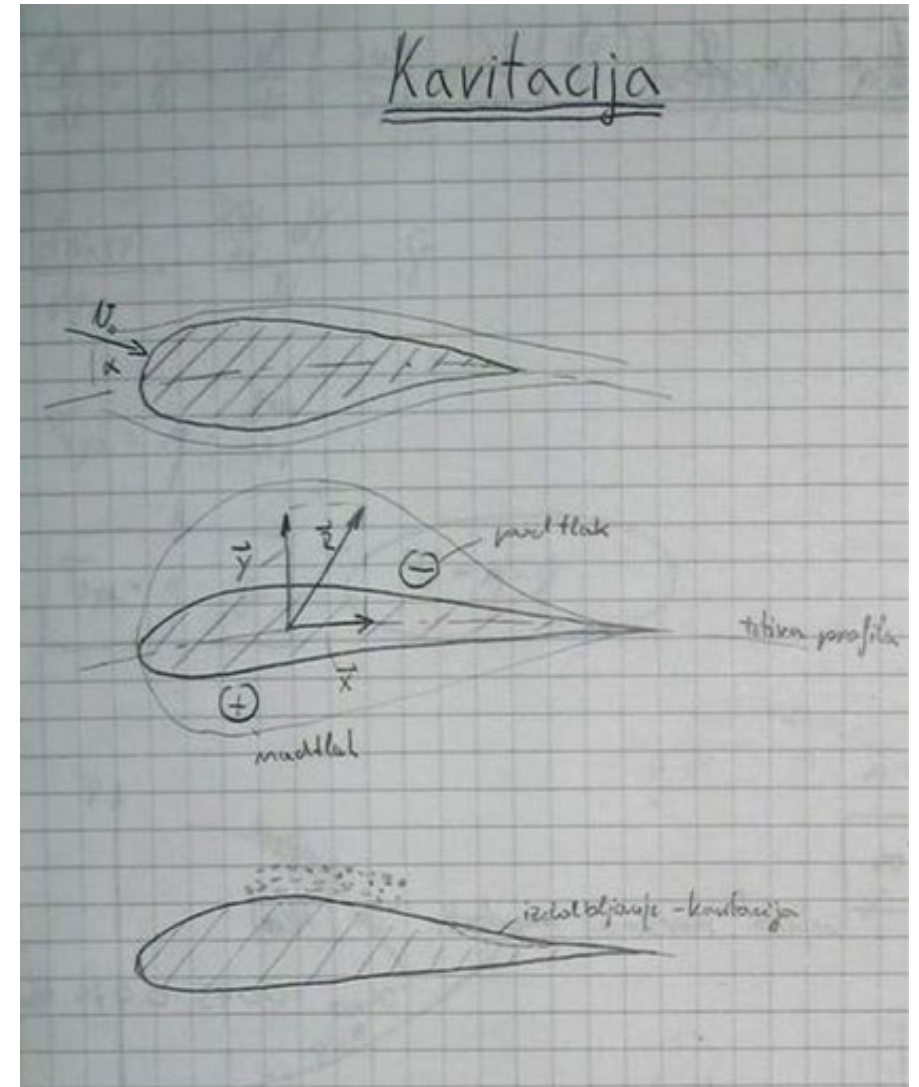
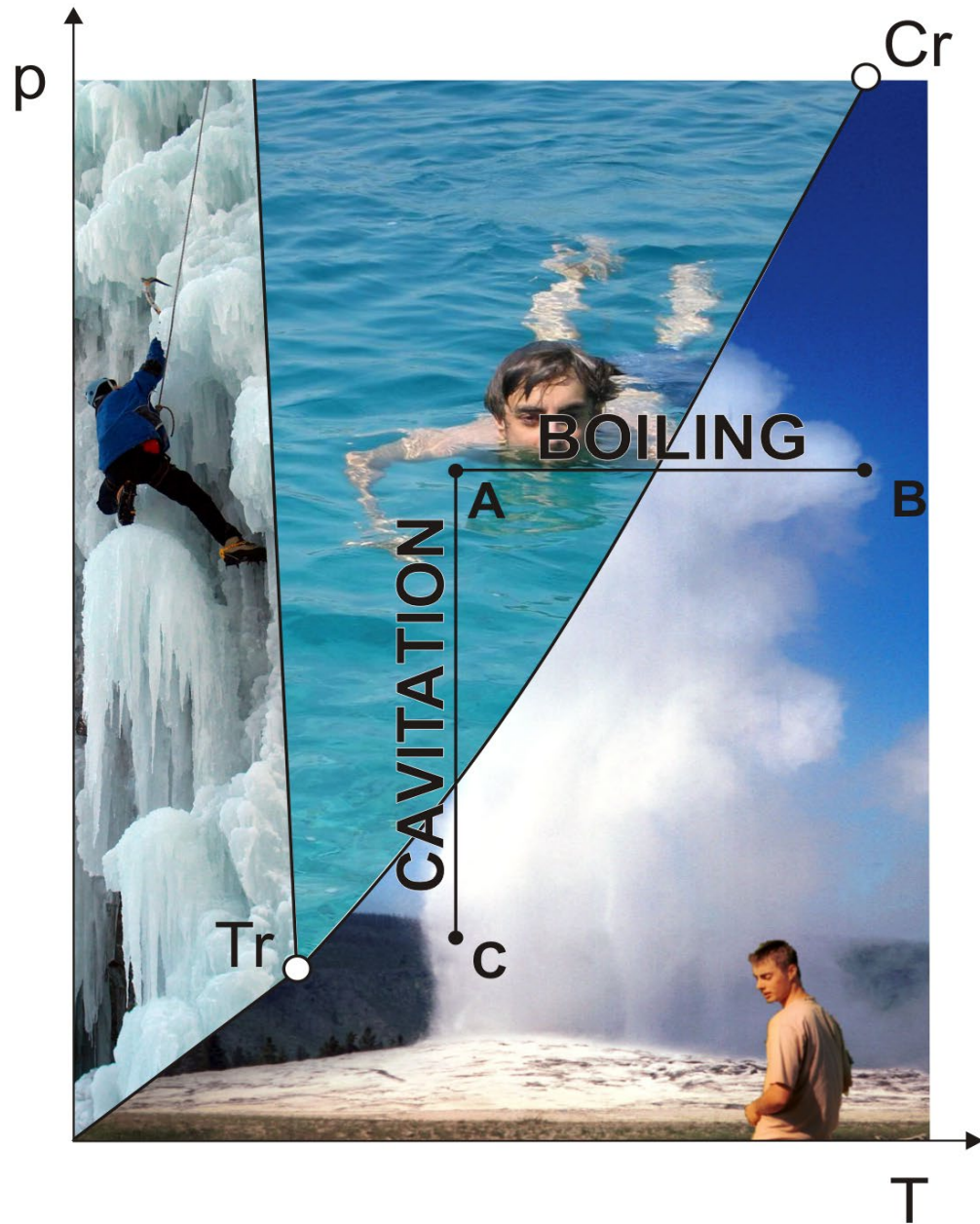
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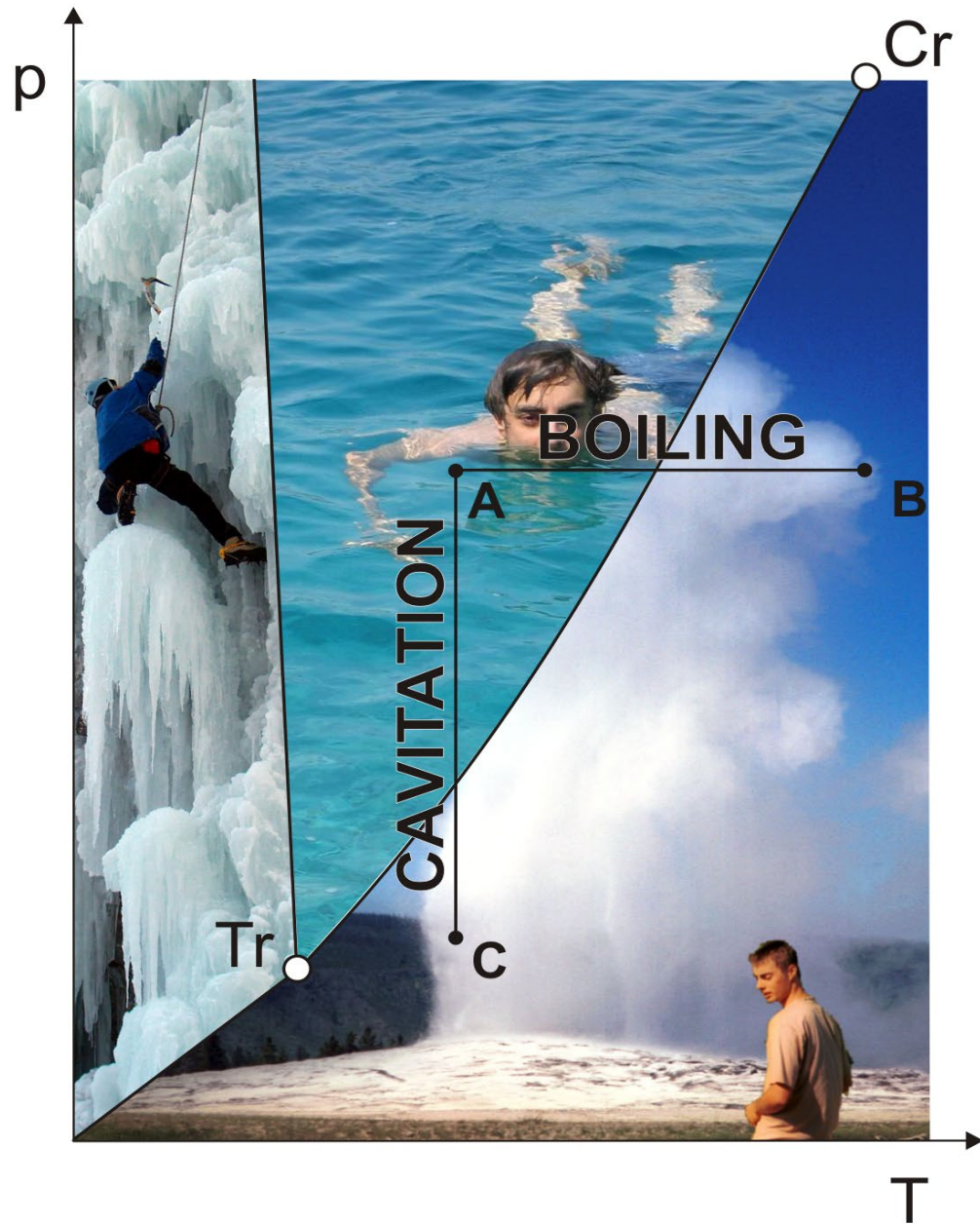


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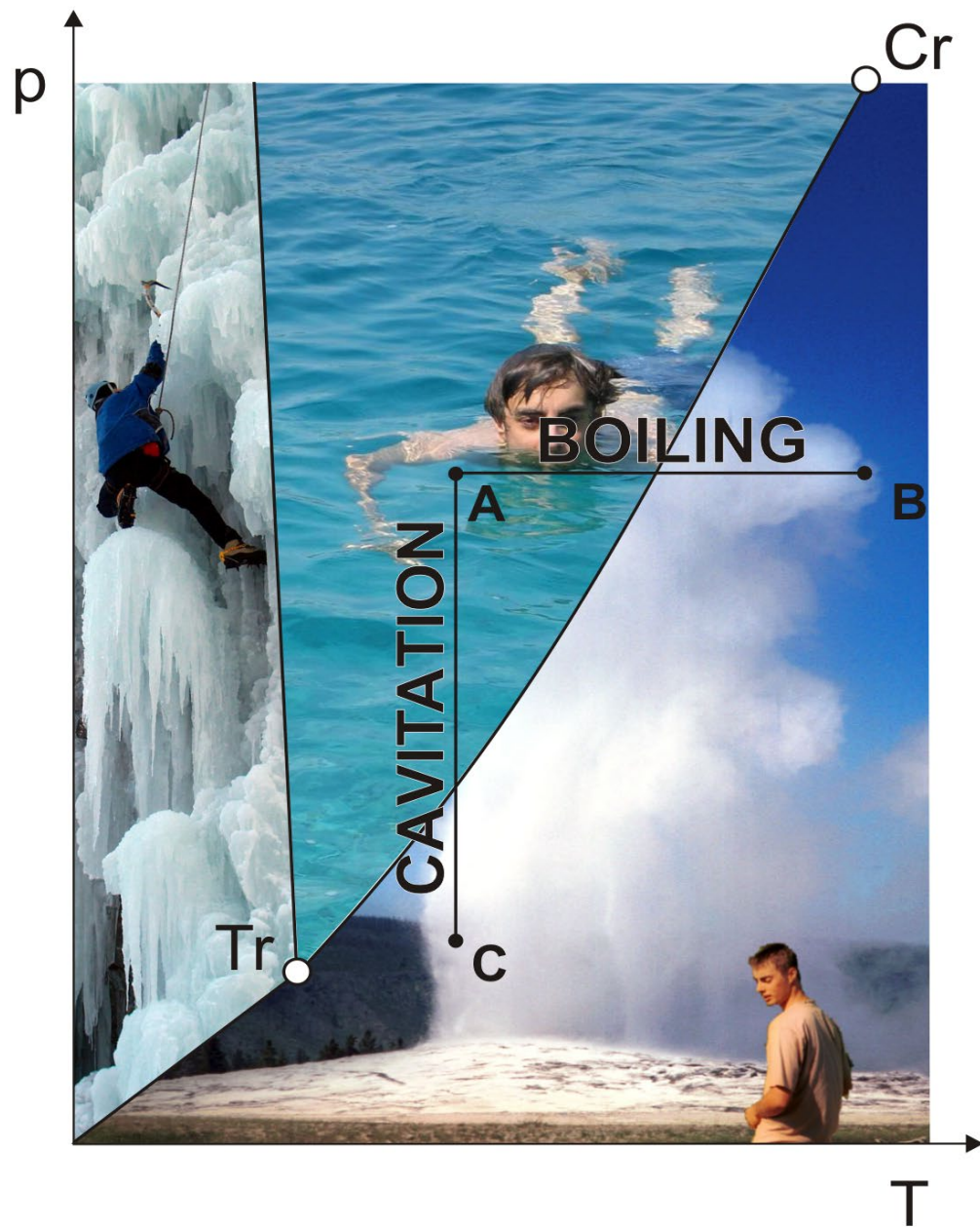


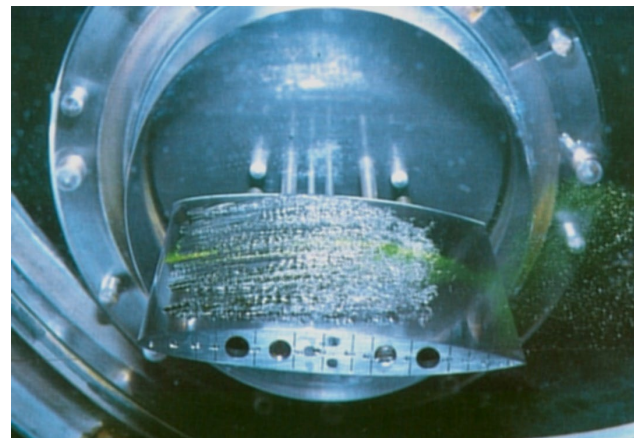
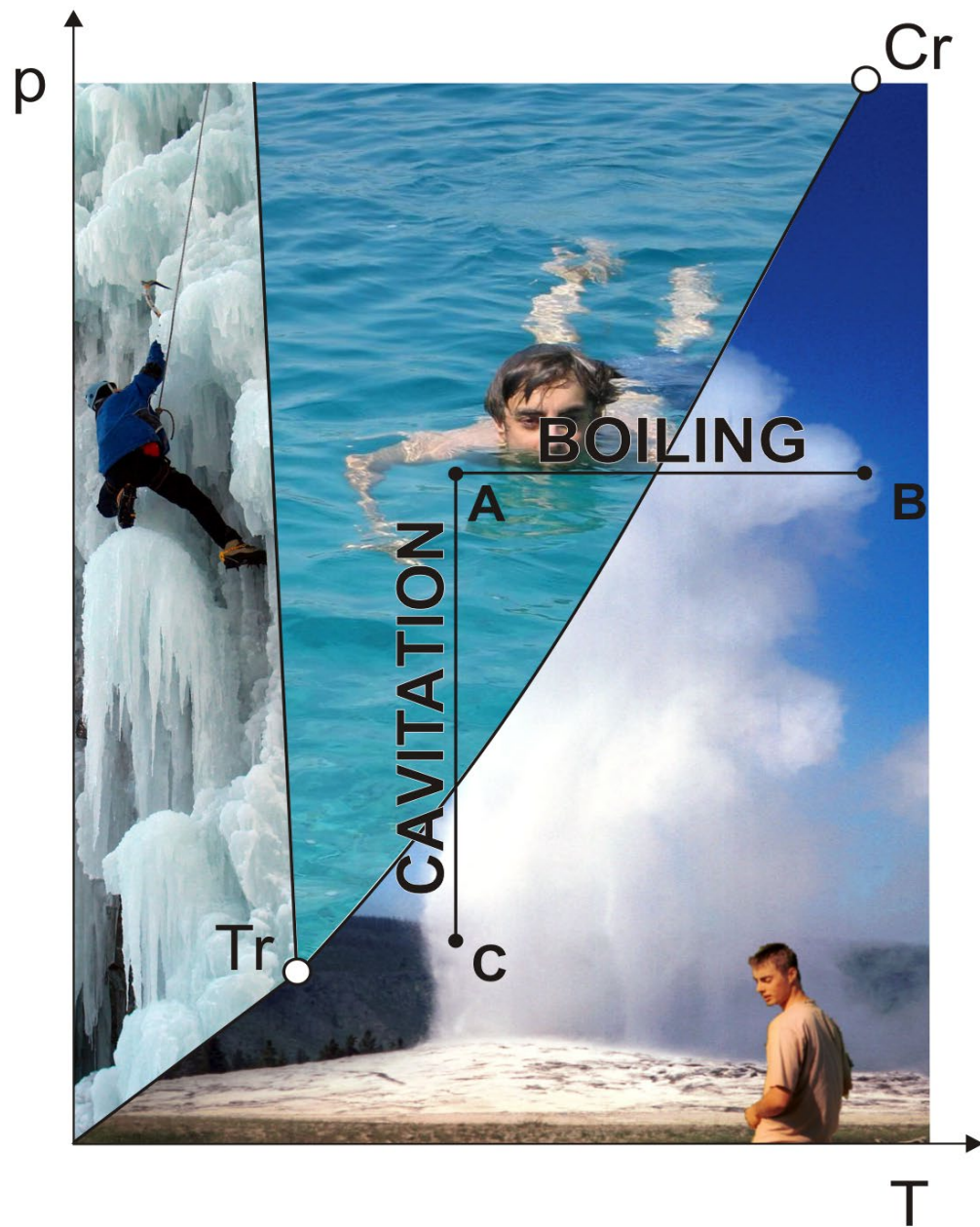




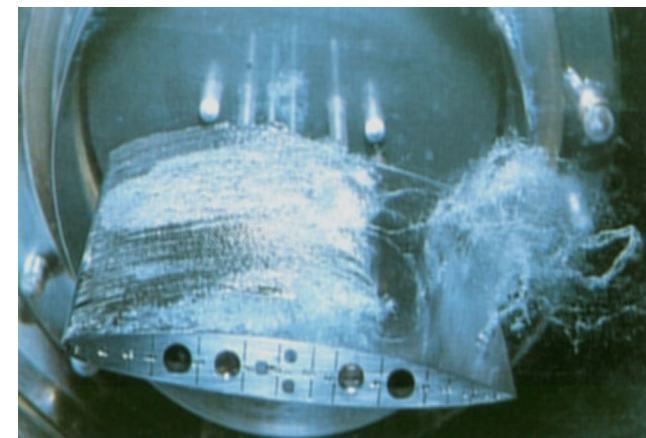
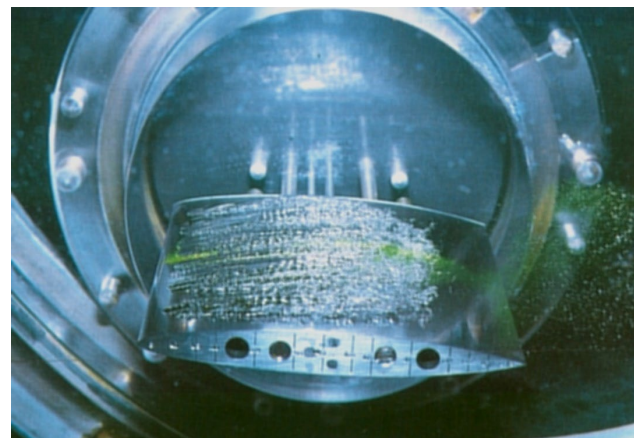
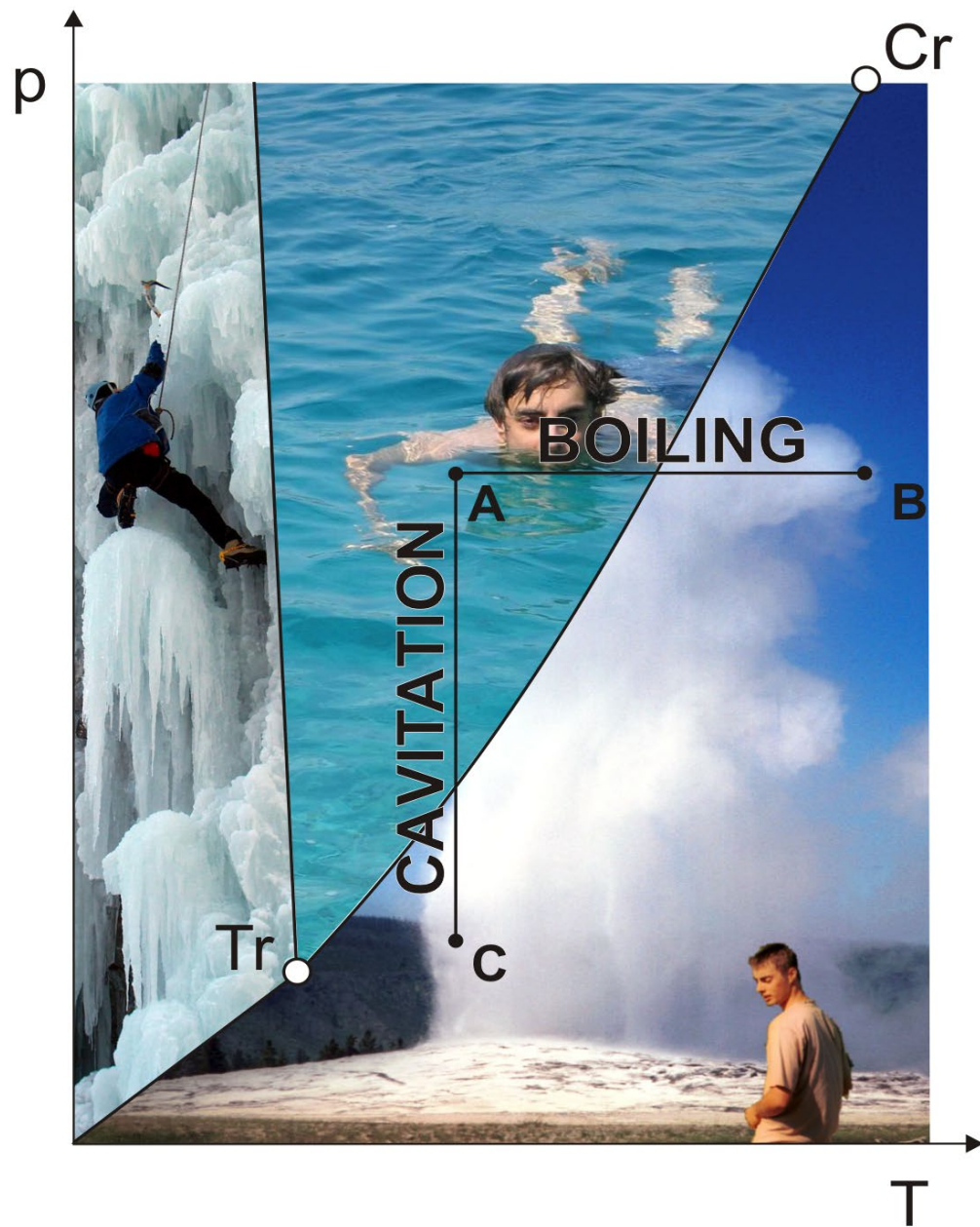


Veliki splošni leksikon, DZS, 1997

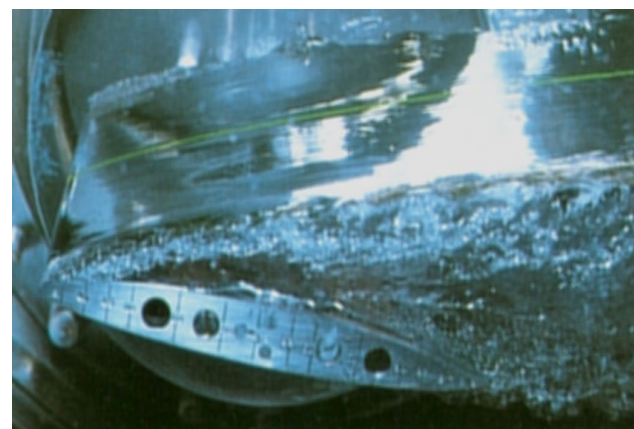
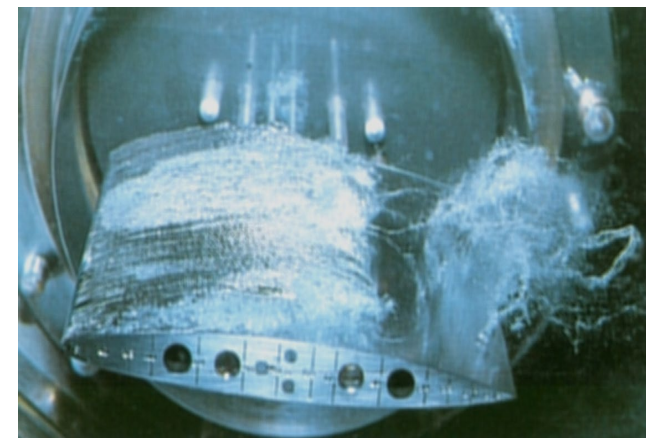
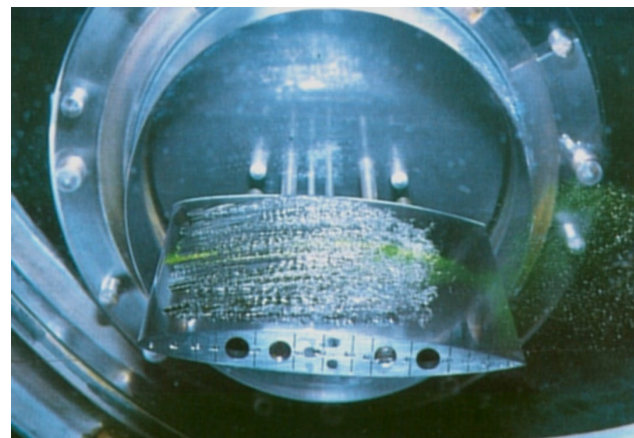
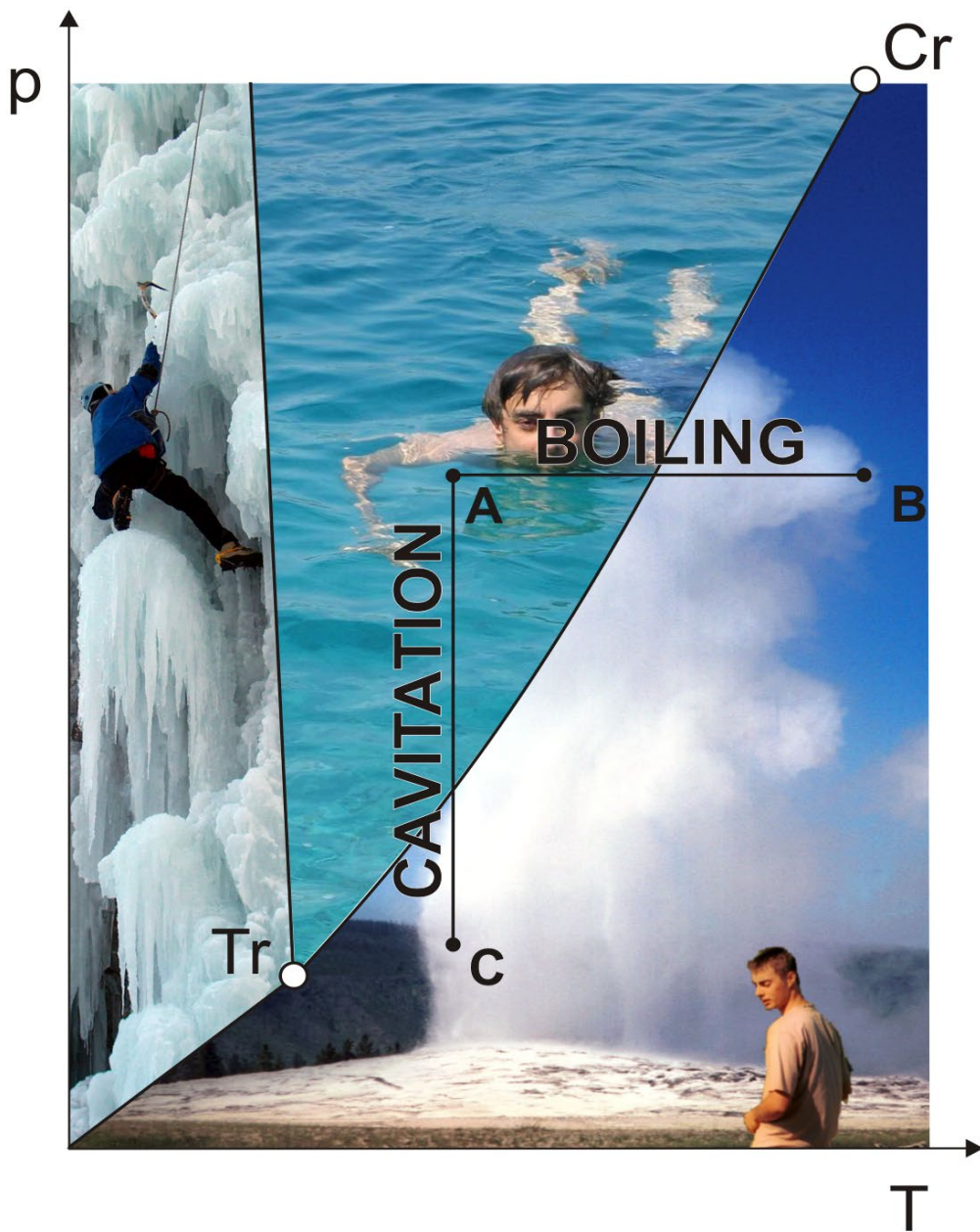




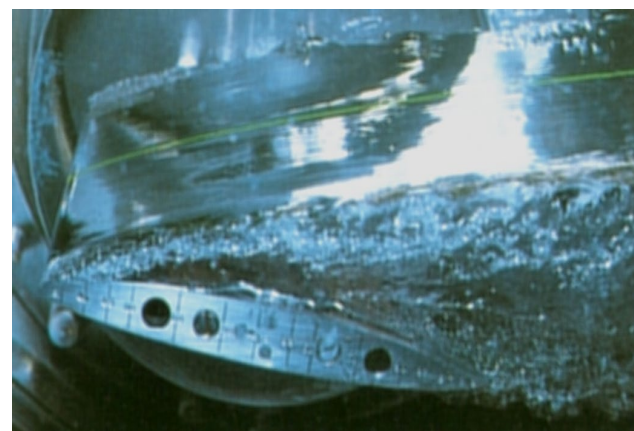
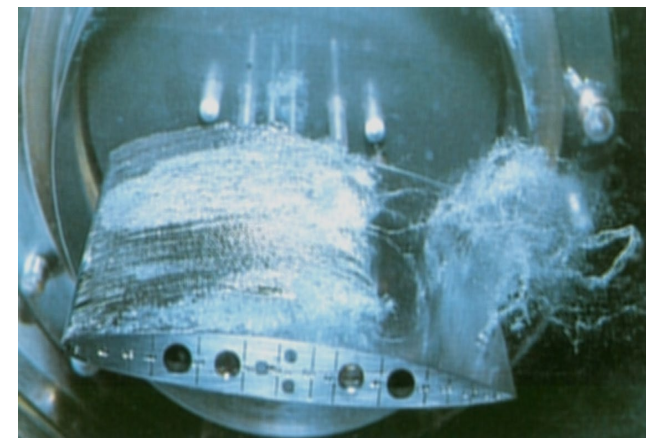
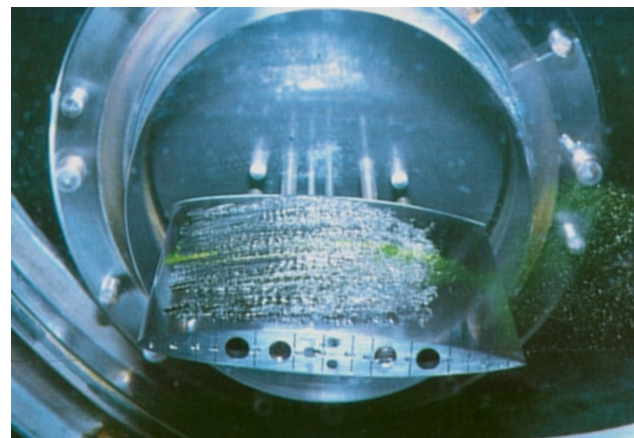
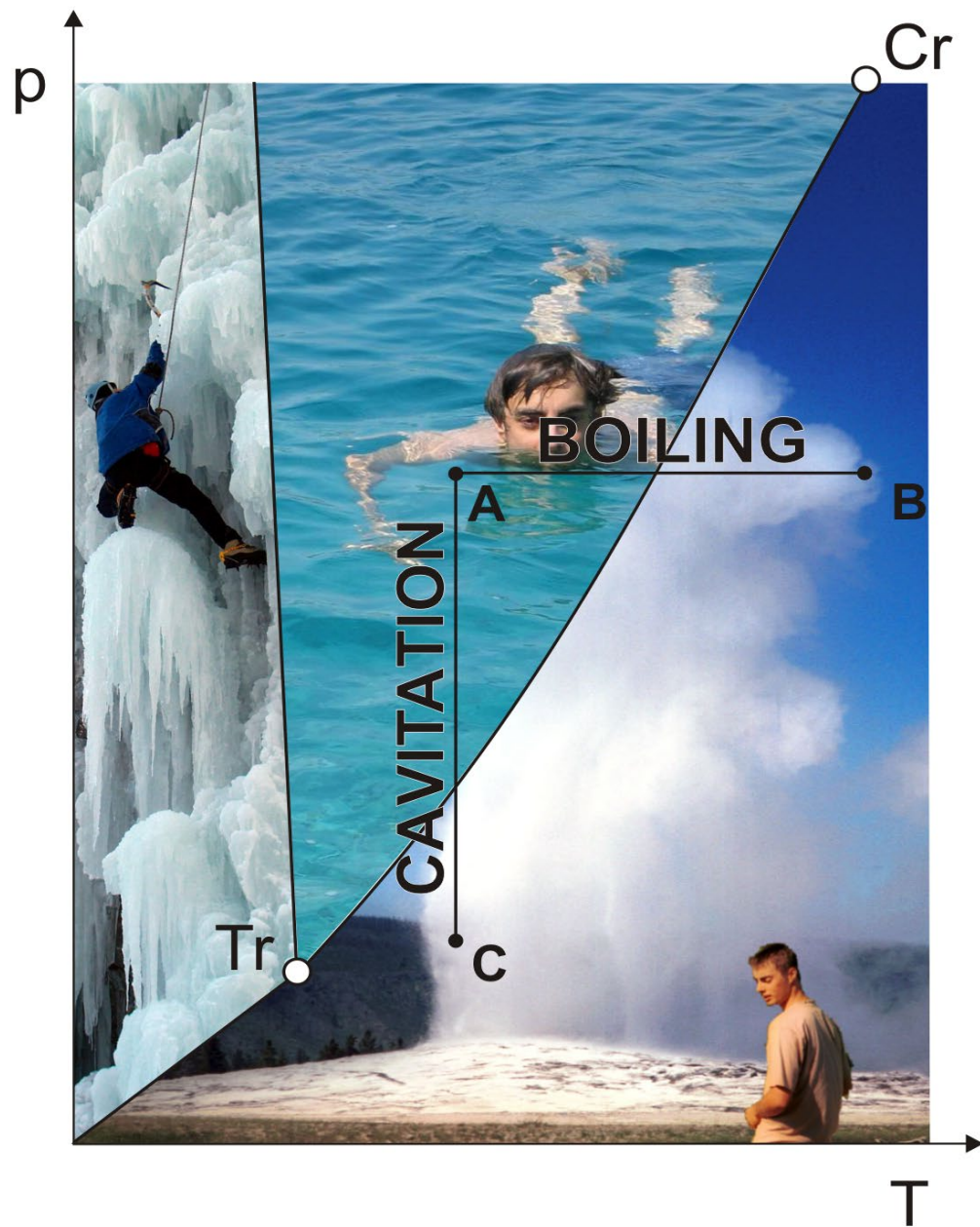
FRANC, Jean-Pierre. **La cavitation: mécanismes physiques et aspects industriels**. EDP Sciences, pp.582, 1995



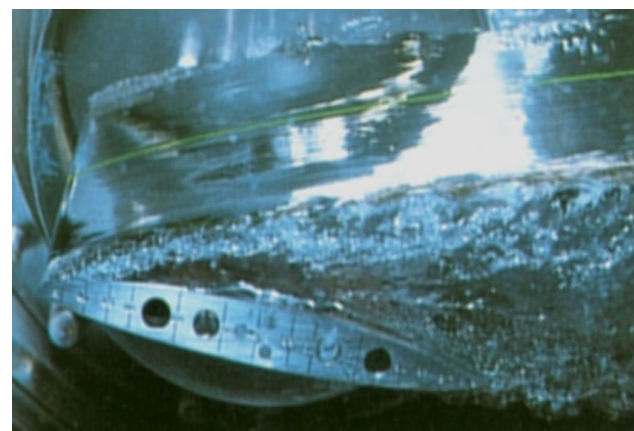
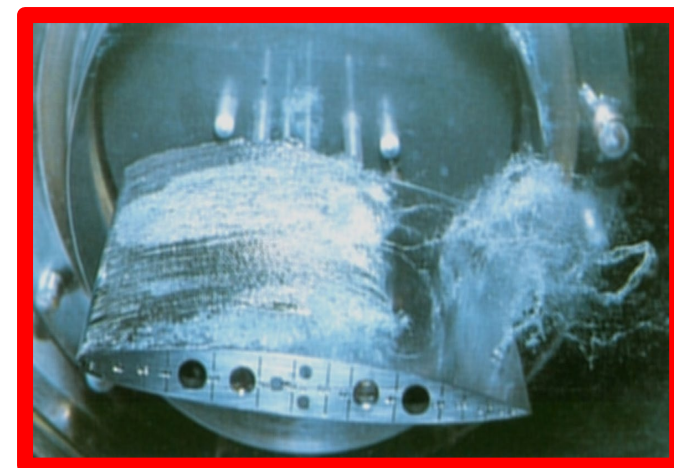
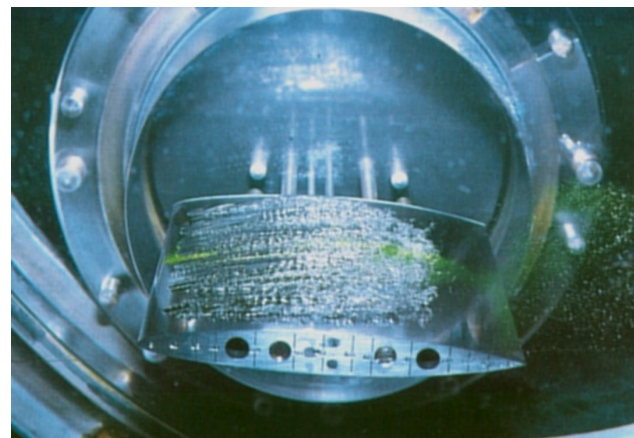
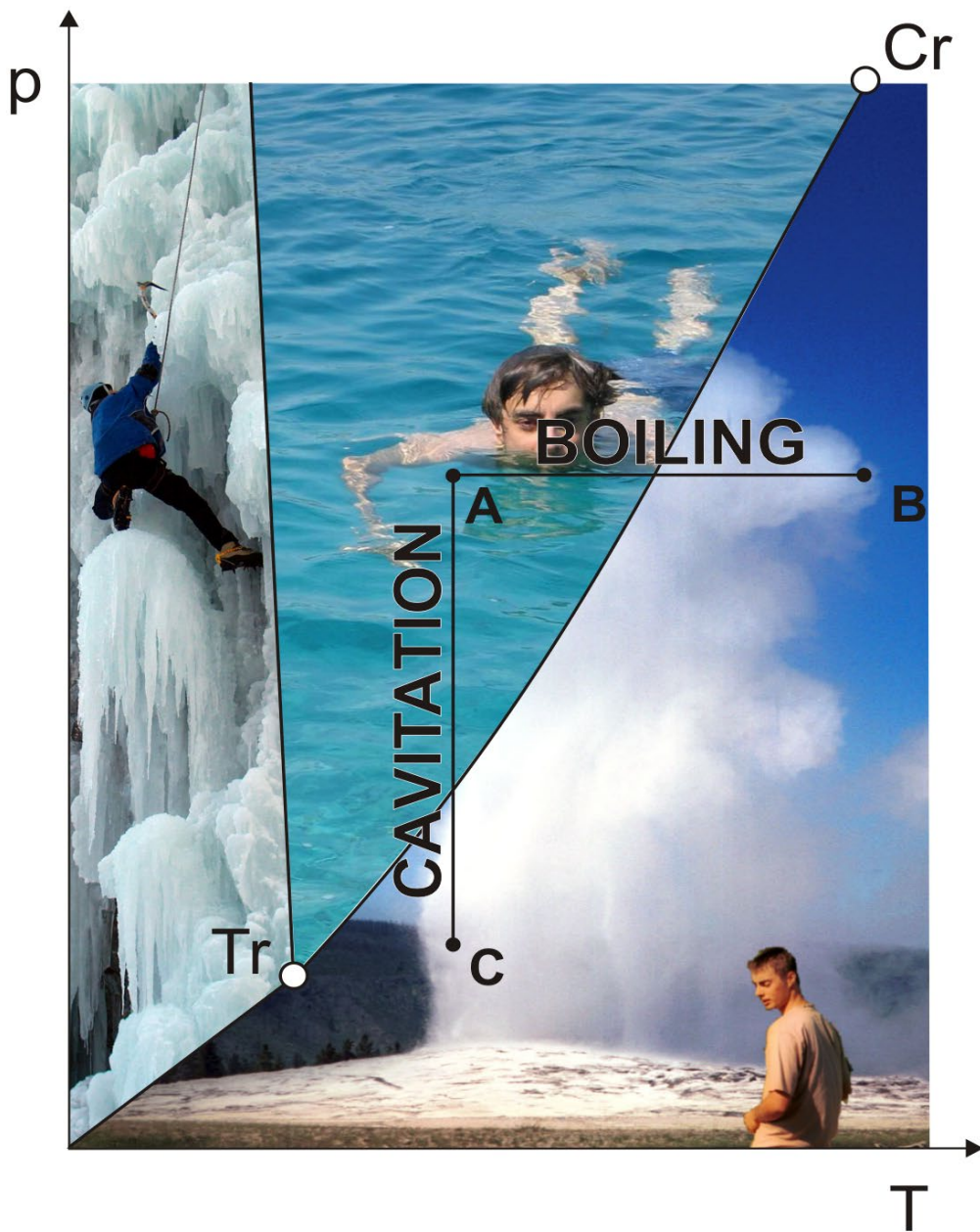
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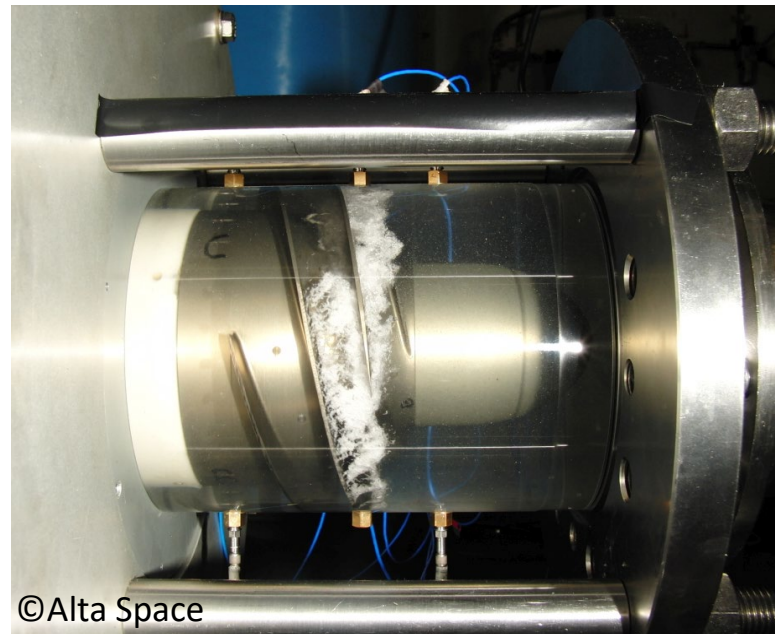
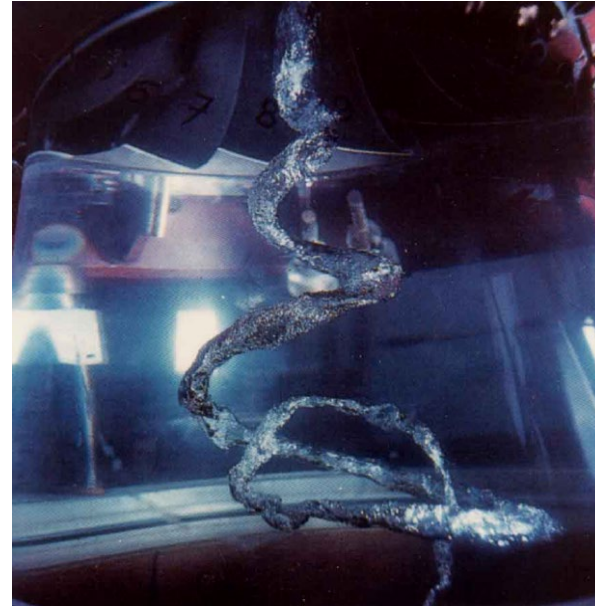
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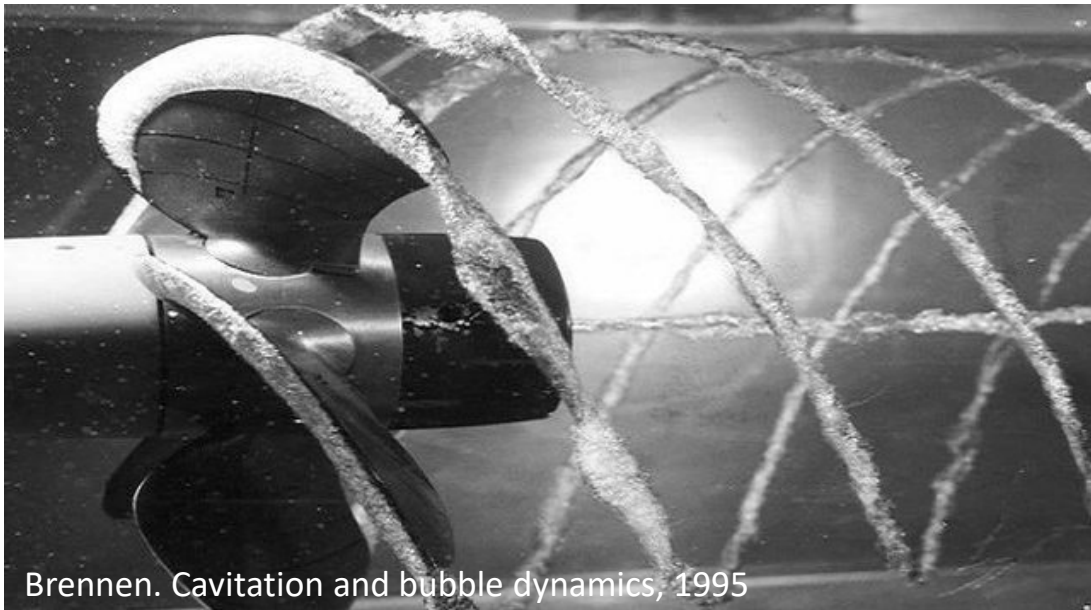
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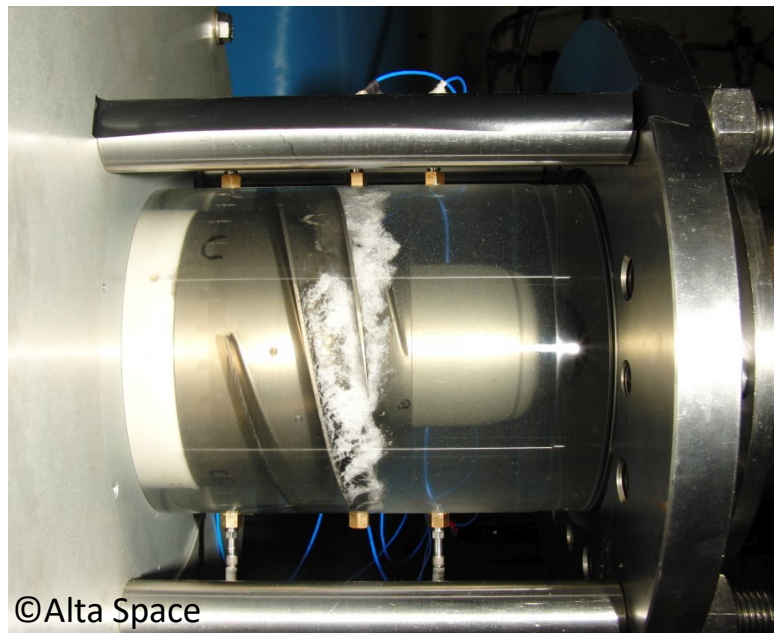
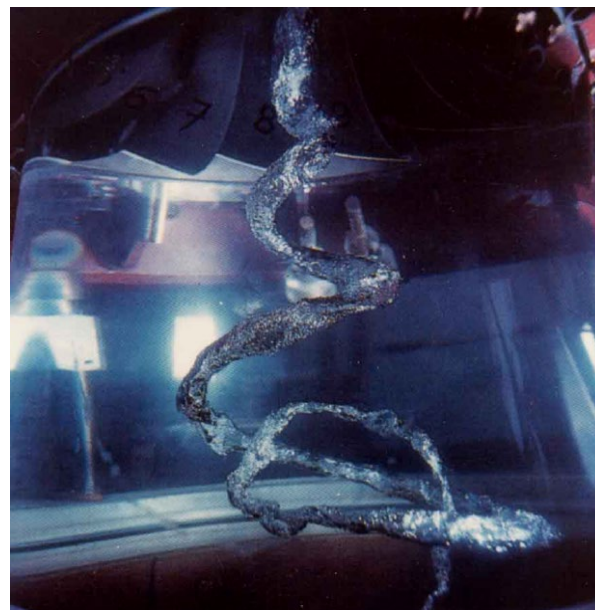
Brennen. Cavitation and bubble dynamics, 1995



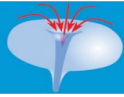
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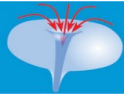


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Cavitation monitoring in hydraulic machines with aid of a computer aided visualization method



Doc. Dr. Brane Širok



Cavitation monitoring in hydraulic machines with aid of a computer aided visualization method



Doc. Dr. Brane Širok



Prof. Dr. Bernd Stoffel



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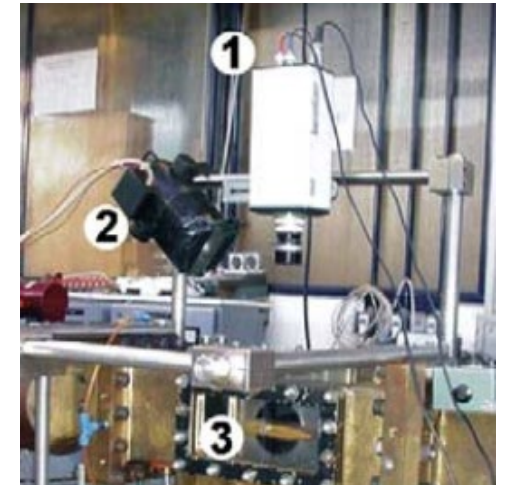
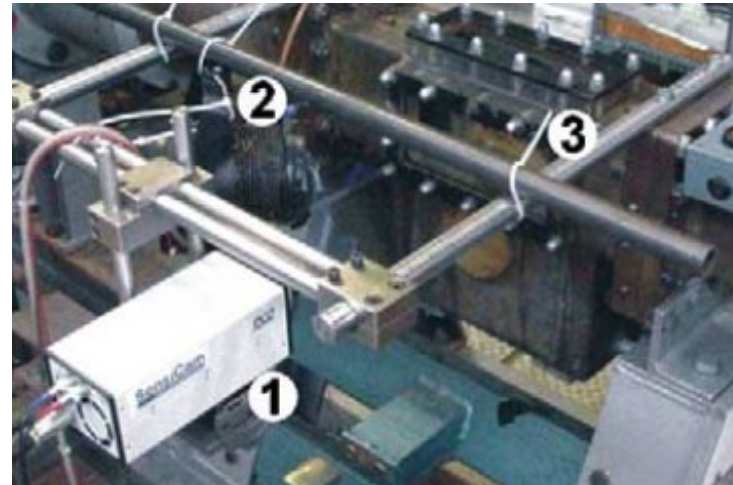
Cavitation monitoring in hydraulic machines with aid of a computer aided visualization method



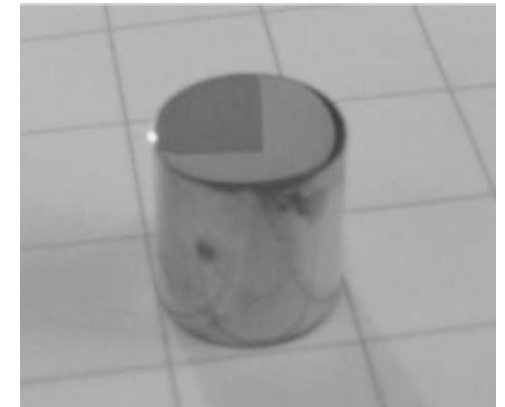
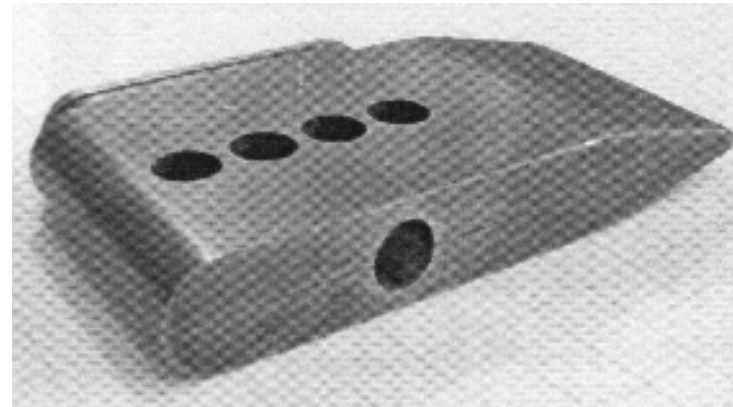
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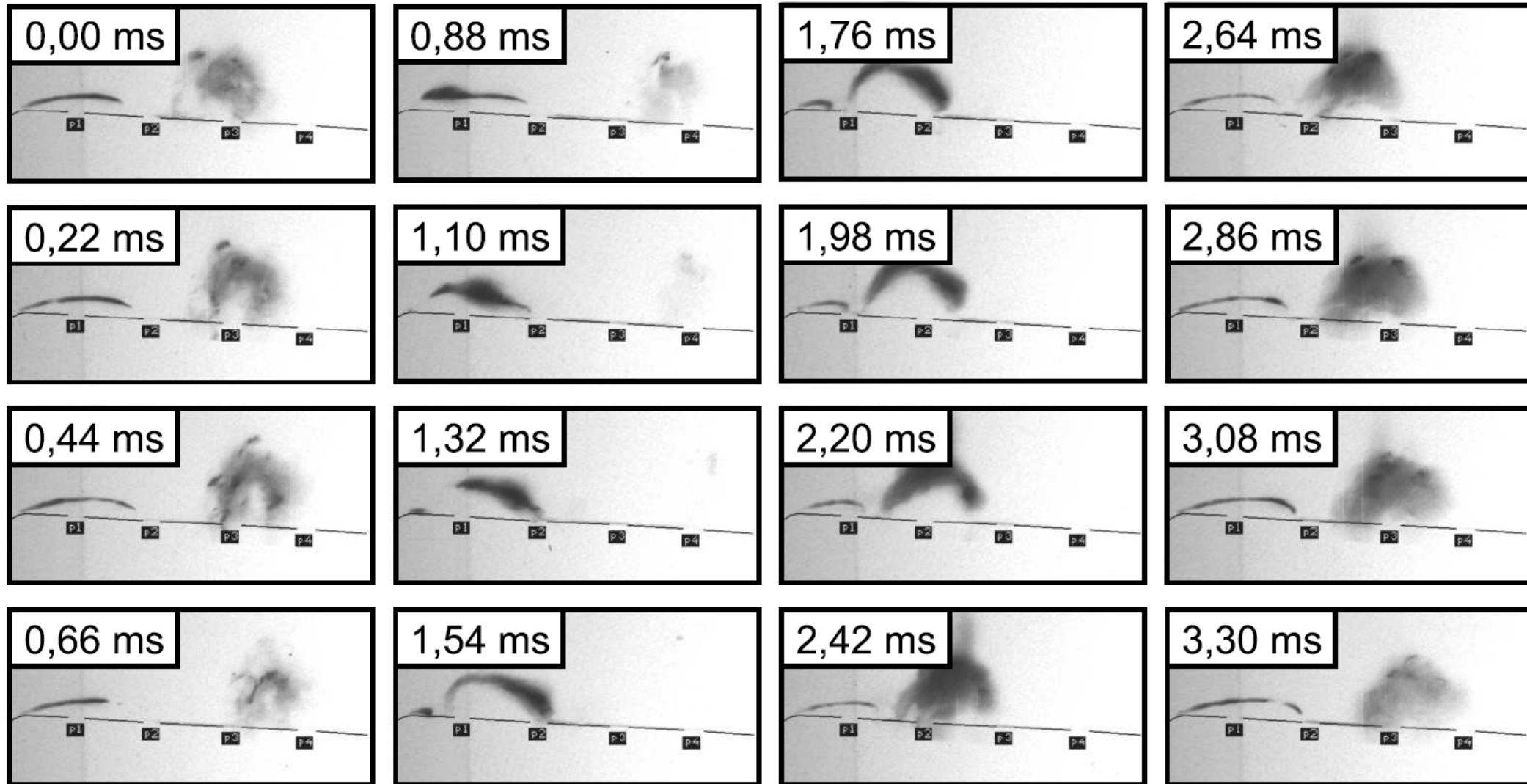
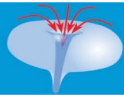


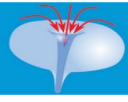
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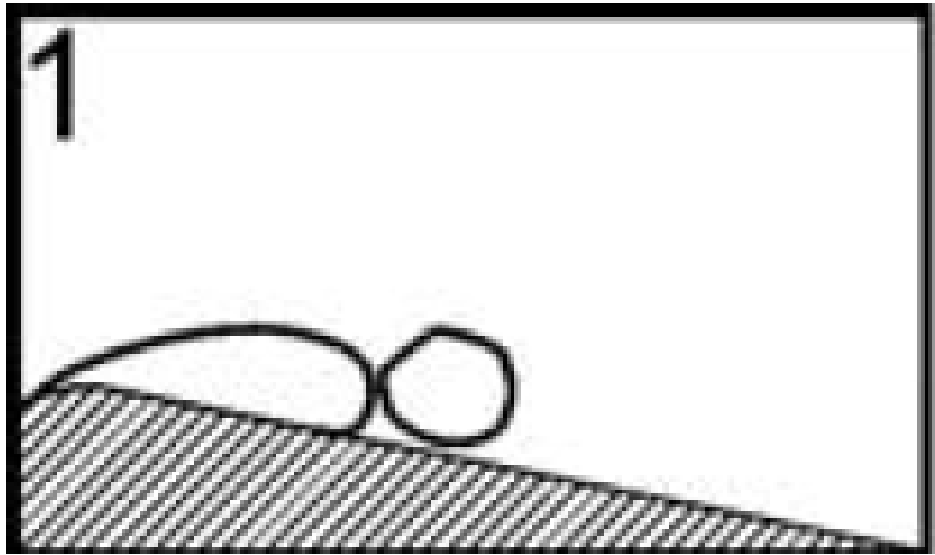
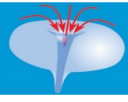
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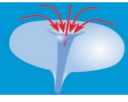


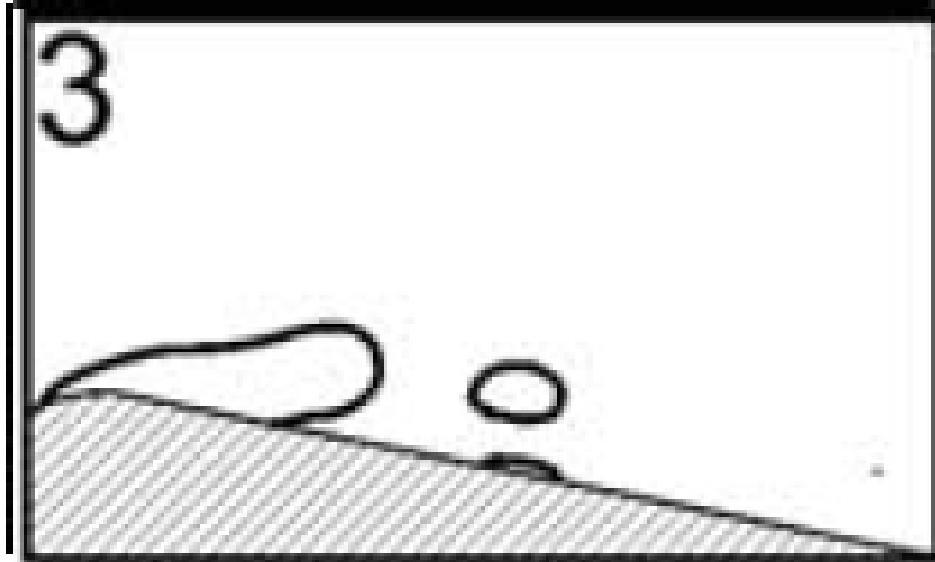
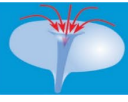


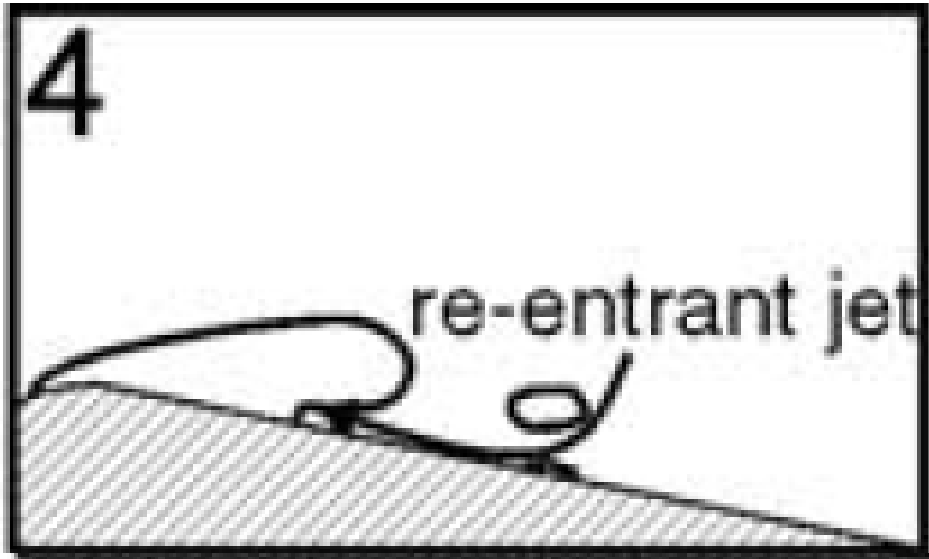
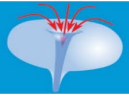


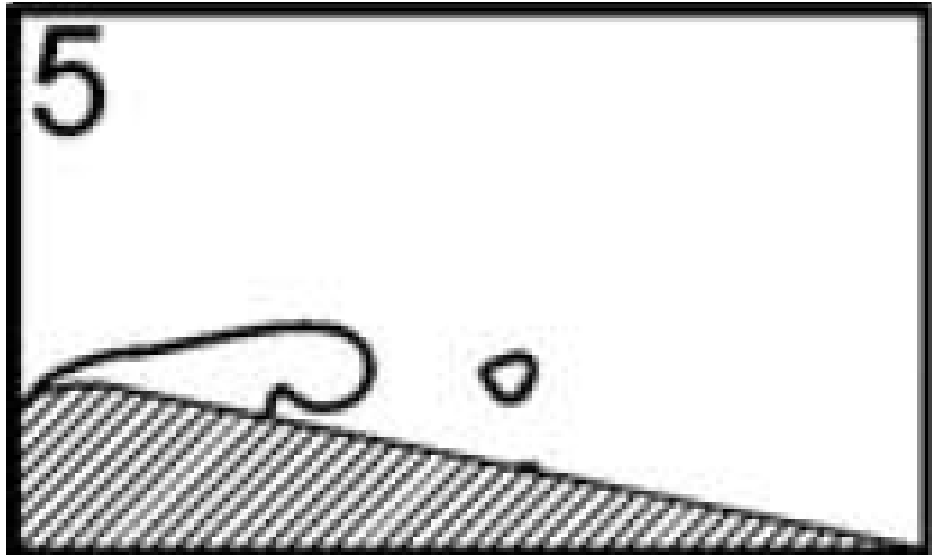
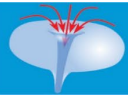
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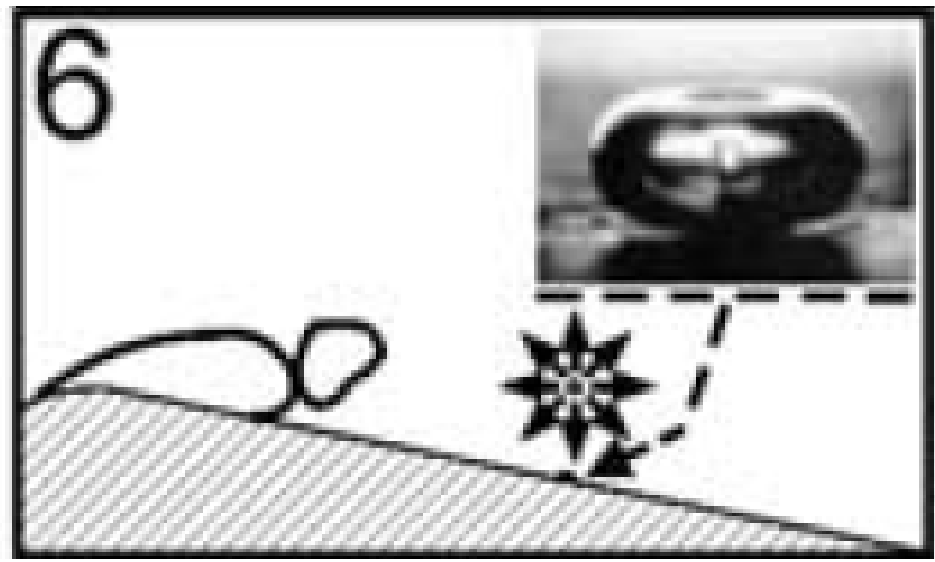
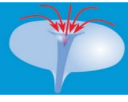


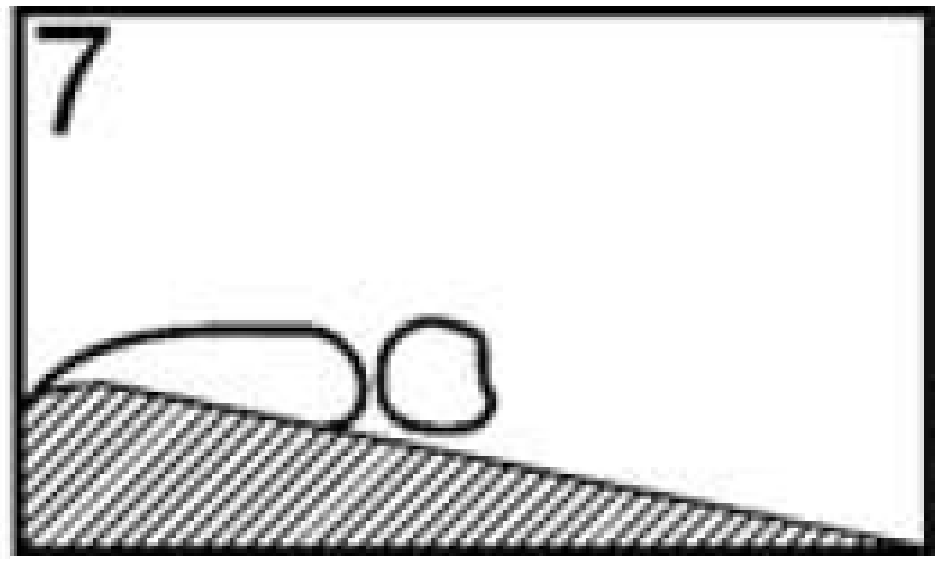
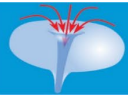


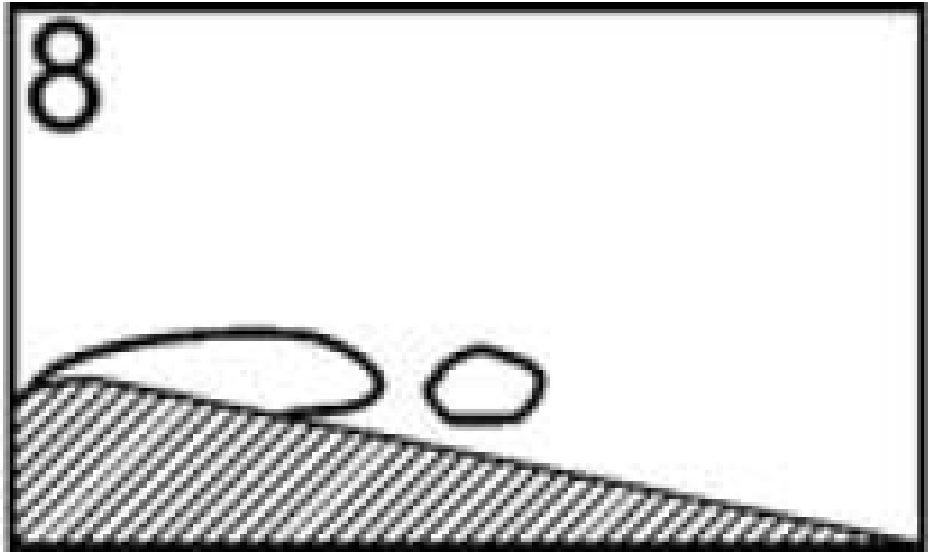
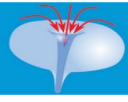


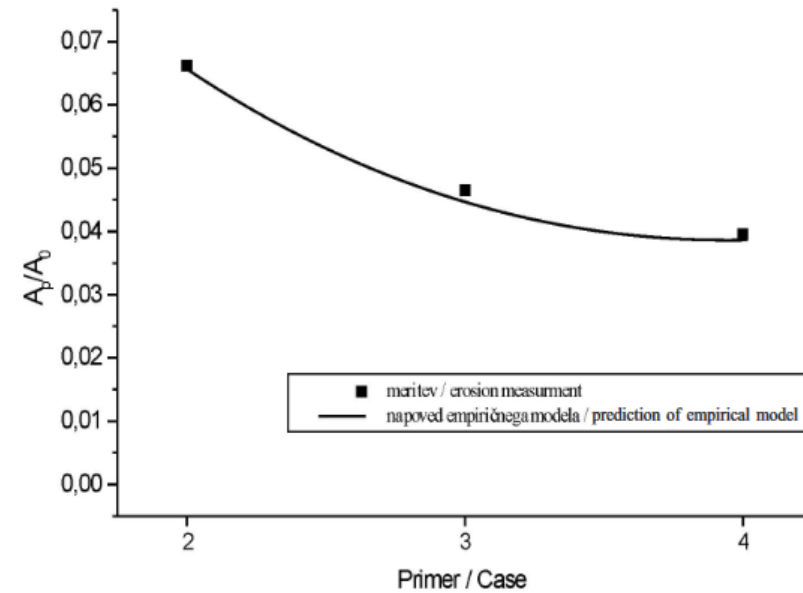
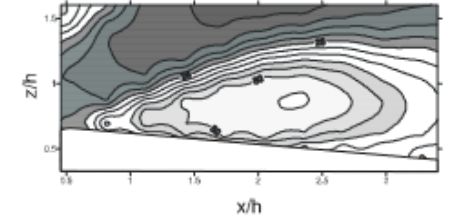
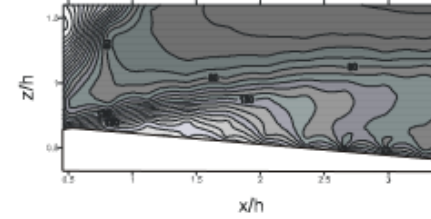
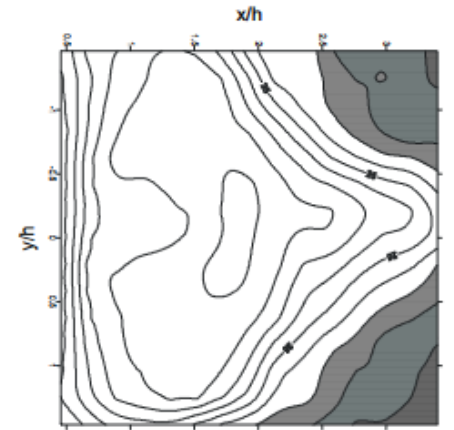
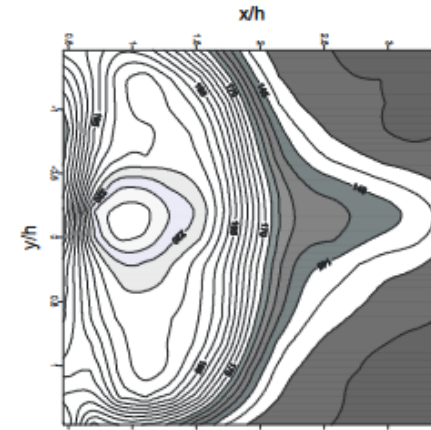
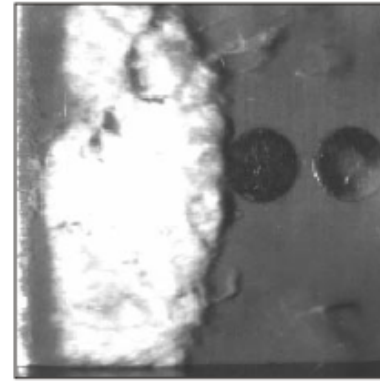
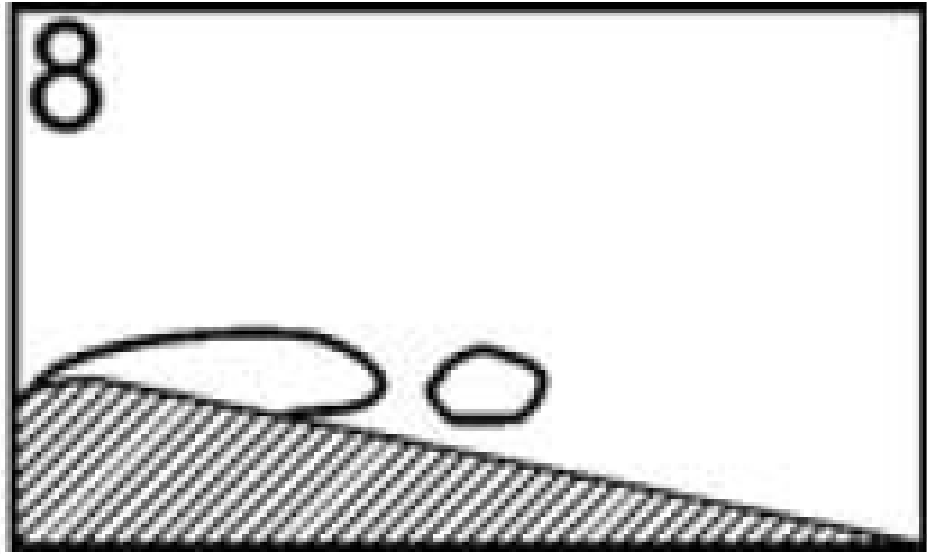
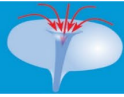


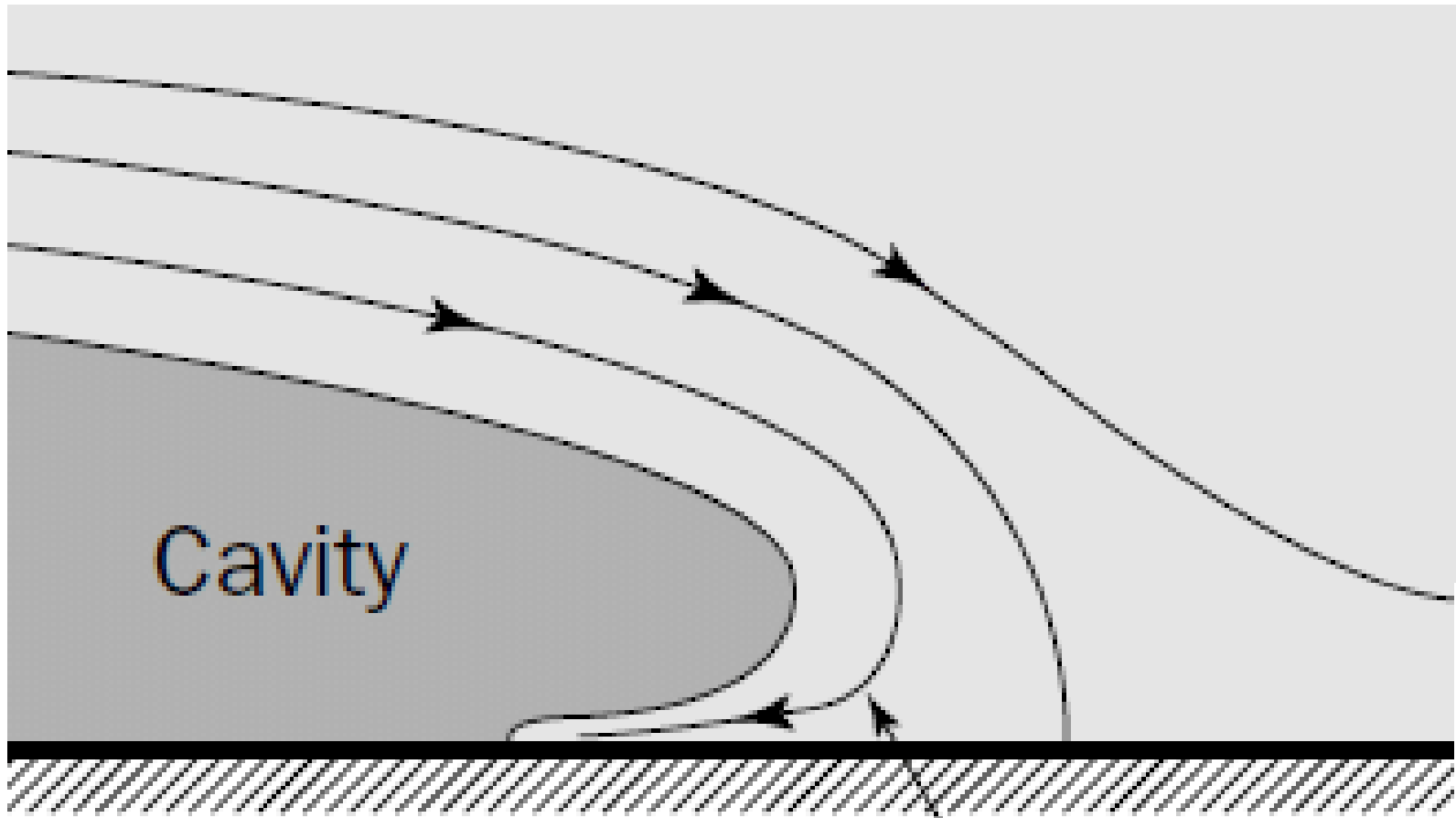
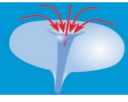






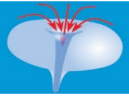






Cavity

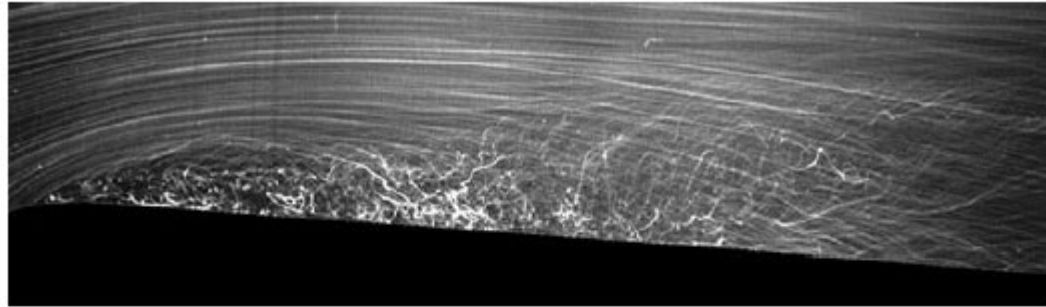
Re-entrant jet



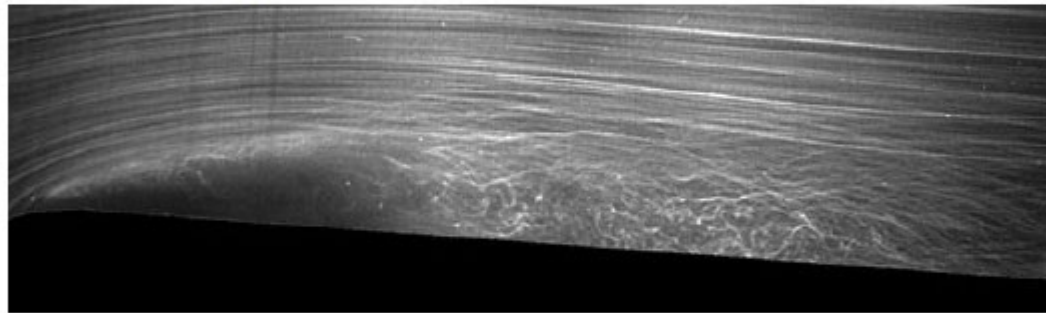
Flow



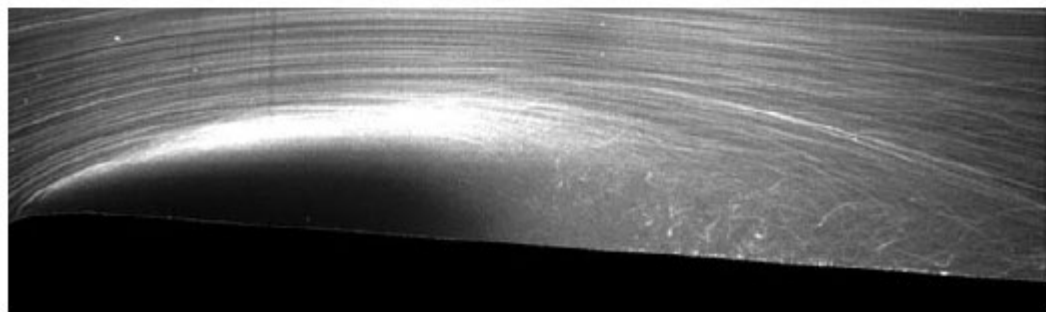
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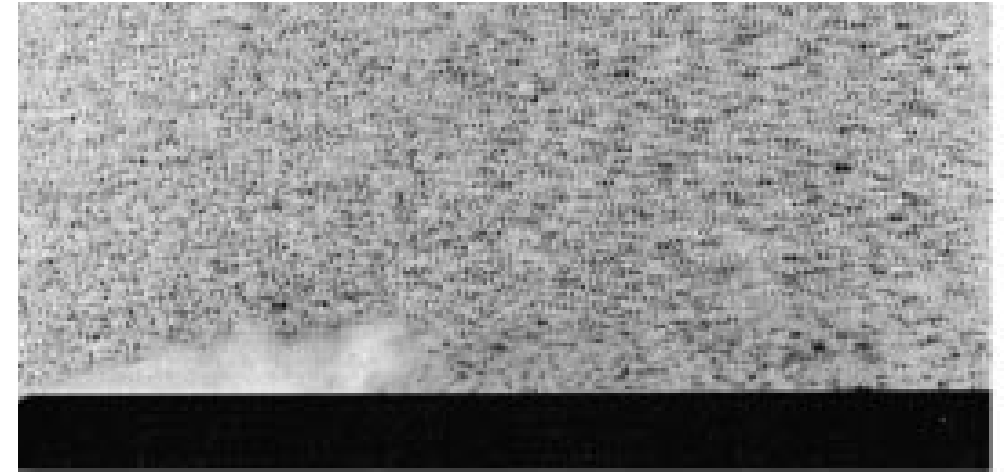
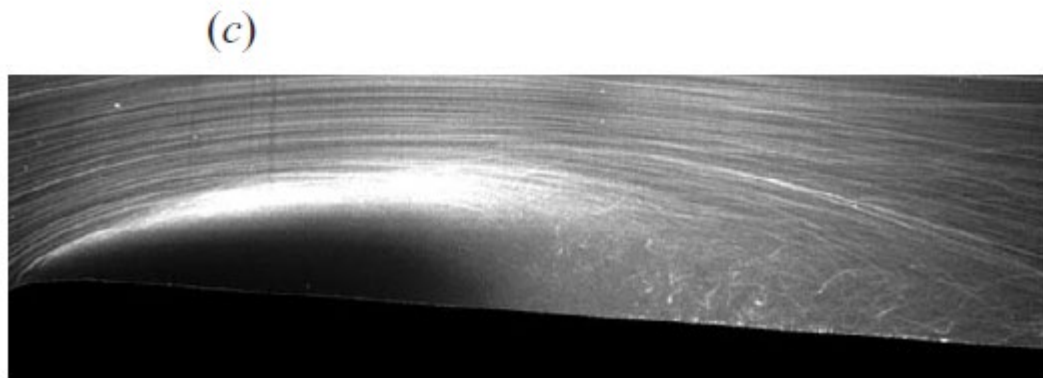
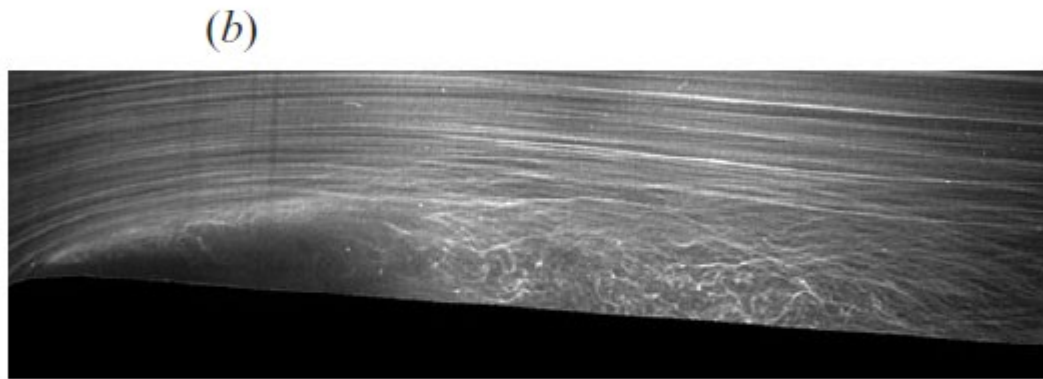
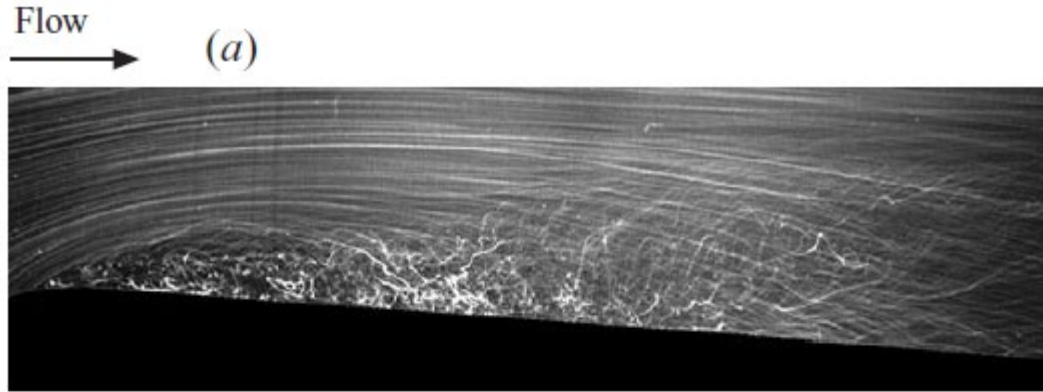
(b)



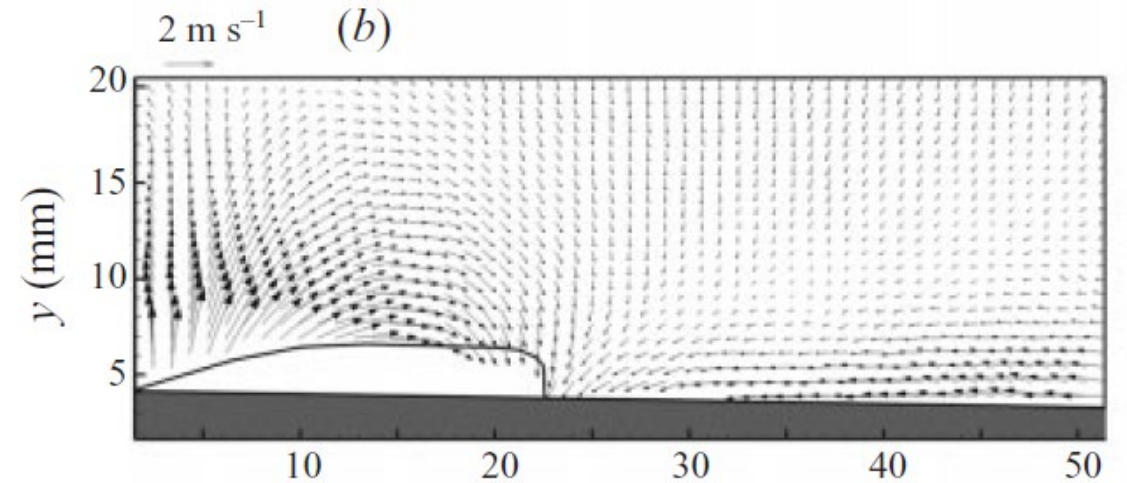
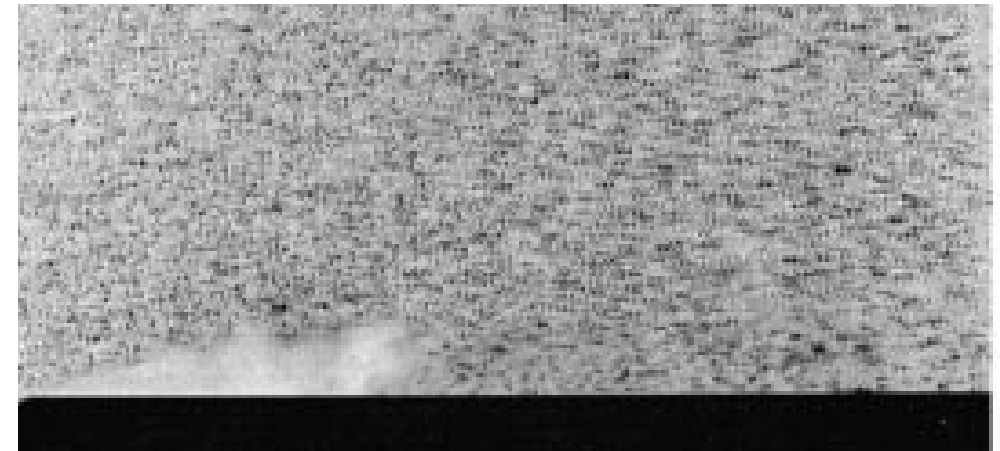
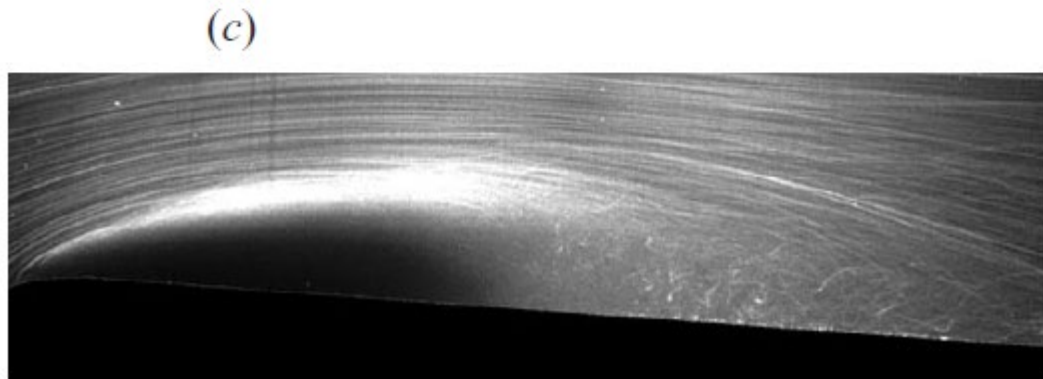
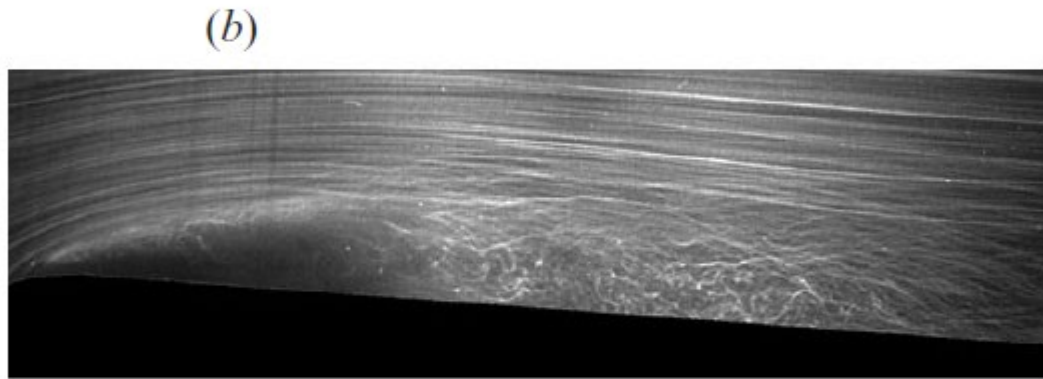
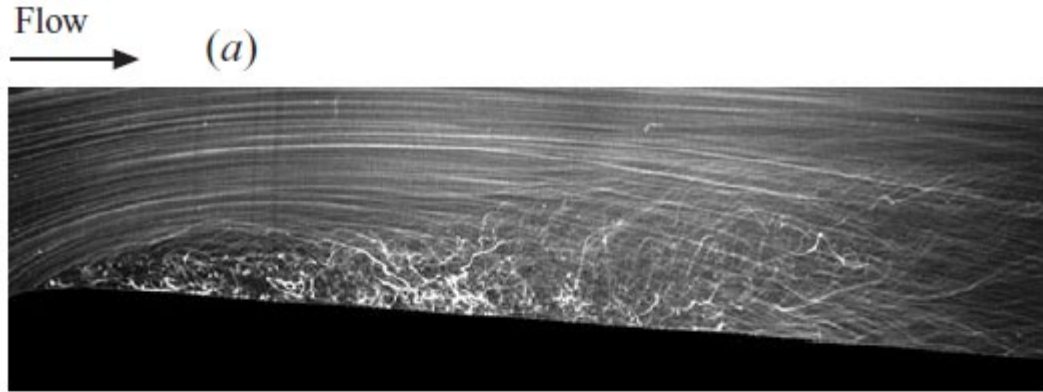
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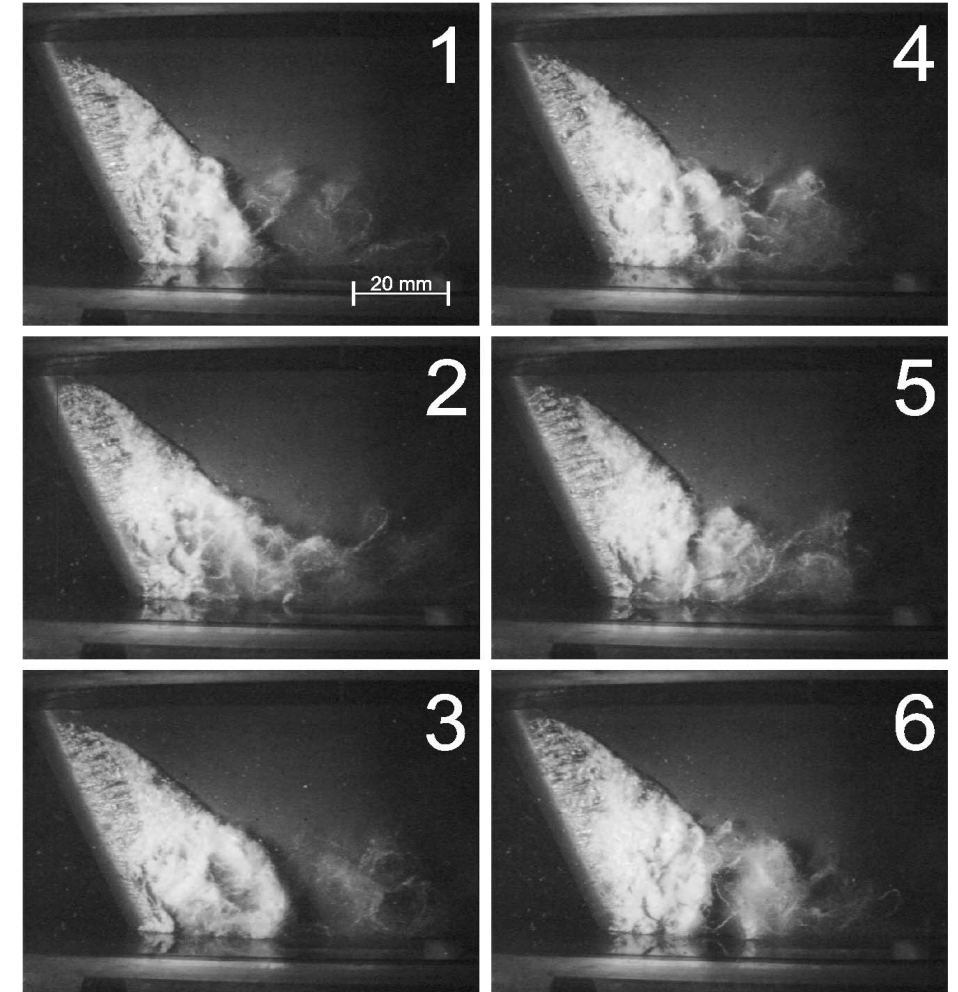
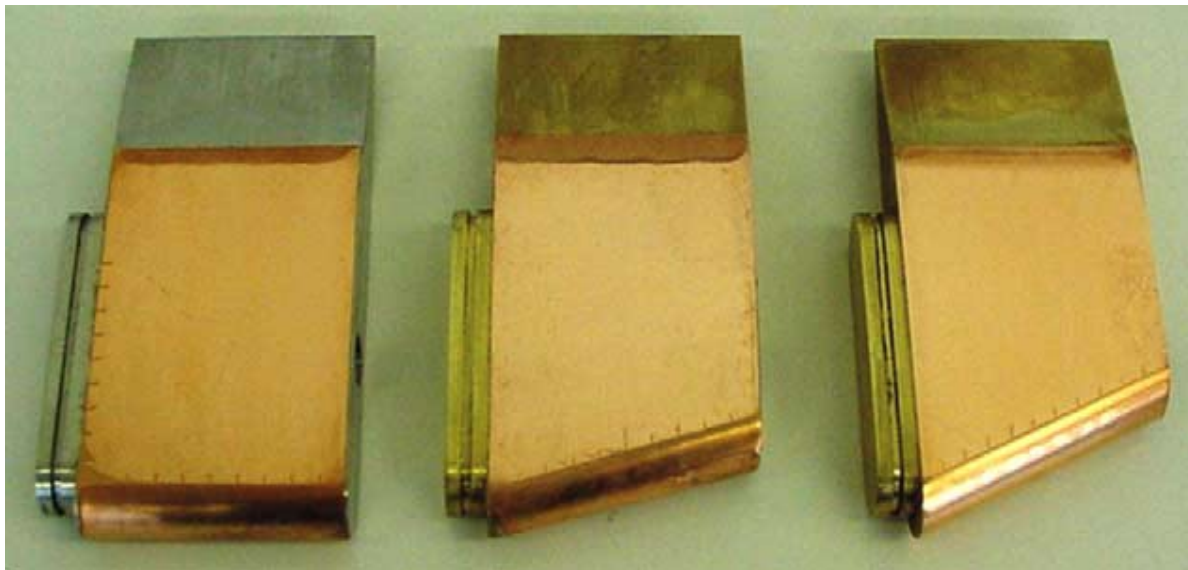
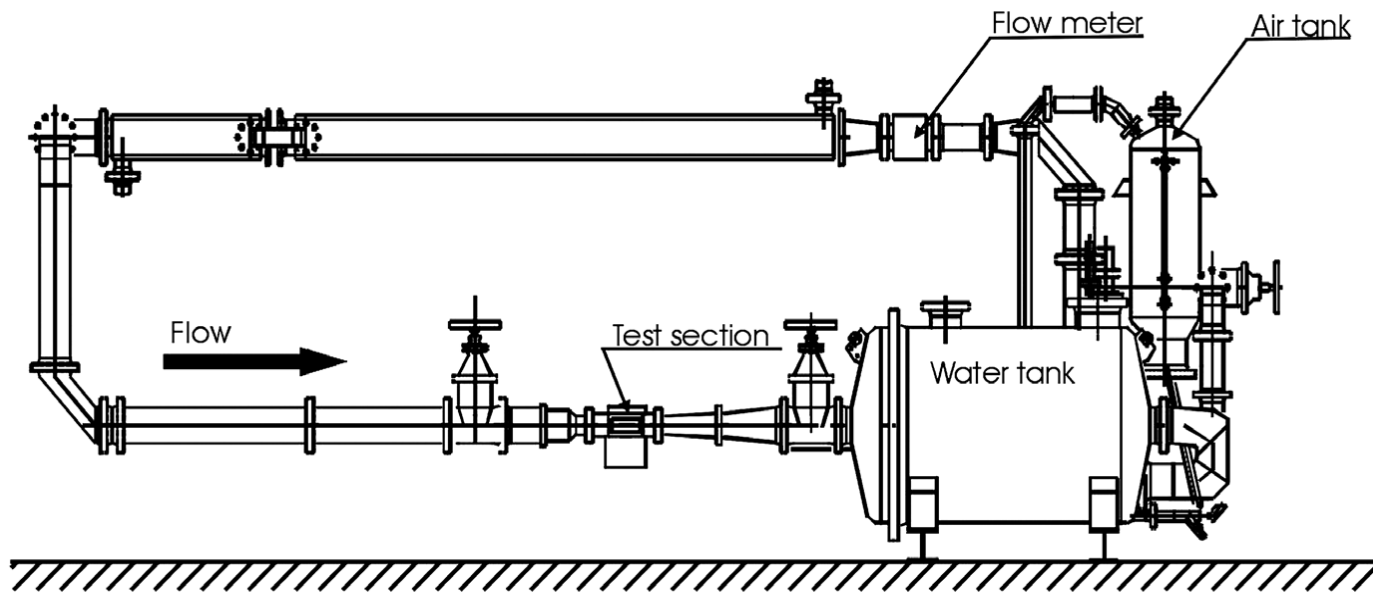
LABERTEAUX & CECCIO, **Partial cavity flows. Part 1. Cavities forming on models without spanwise variation**, J. Fluid Mech., vol. 431, pp. 1-41 (2001)



LABERTEAUX & CECCIO, **Partial cavity flows. Part 1. Cavities forming on models without spanwise variation**, J. Fluid Mech., vol. 431, pp. 1-41 (2001)



LABERTEAUX & CECCIO, **Partial cavity flows. Part 1. Cavities forming on models without spanwise variation**, J. Fluid Mech., vol. 431, pp. 1-41 (2001)



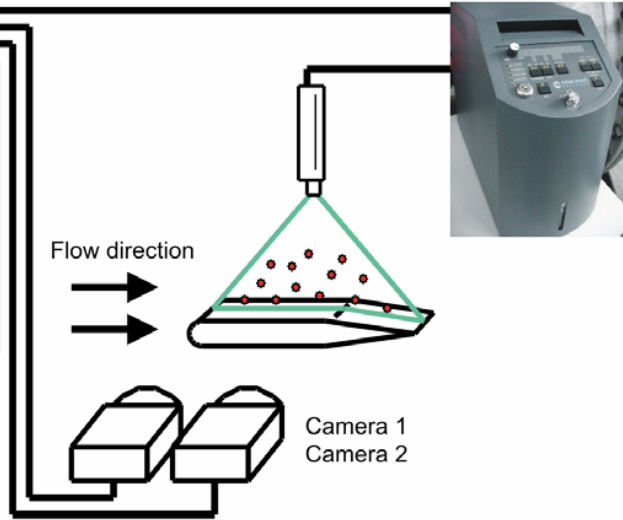
DULAR, Matevž, BACHERT, Rudolf, STOFFEL, Bernd, ŠIROK, Brane. **Experimental evaluation of numerical simulation of cavitating flow around hydrofoil.** *Eur. j. mech. B, Fluids*, vol. 24, iss. 4, pp. 522-538, 2005

Flow Map 1501

Acquisition & Control Unit



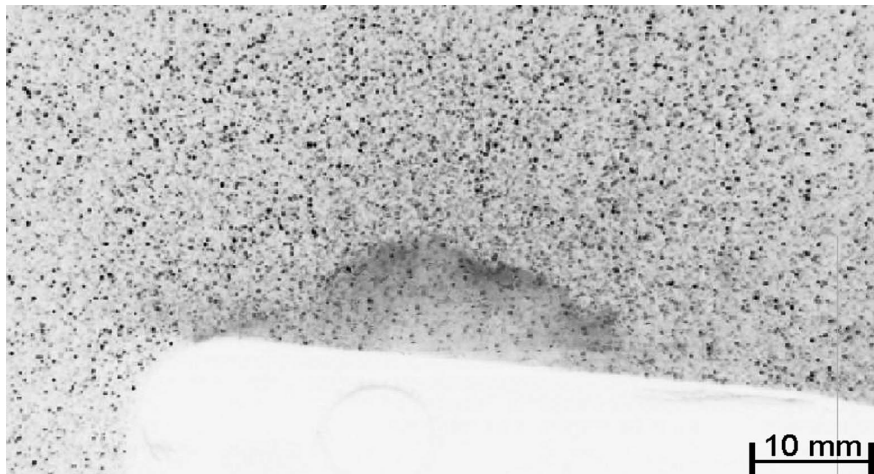
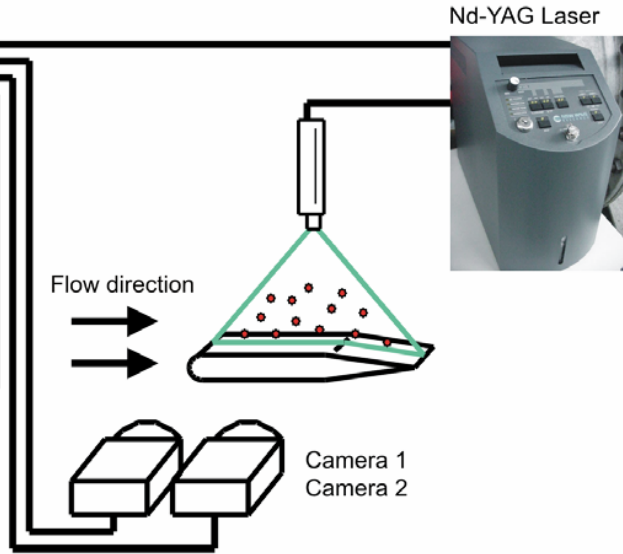
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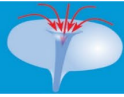
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Flow Map 1501

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Flow Map 1501

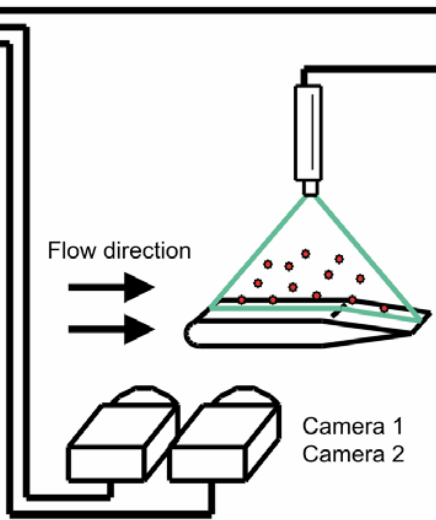
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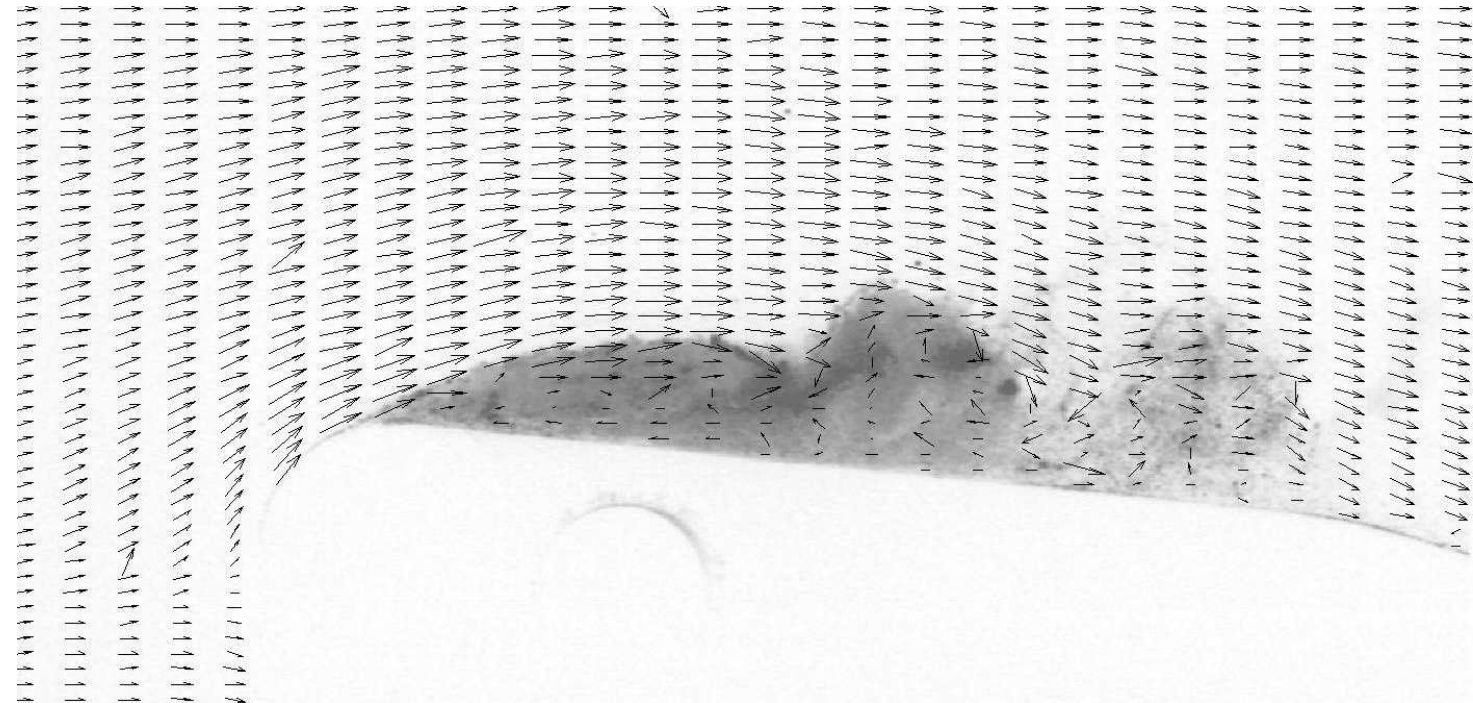
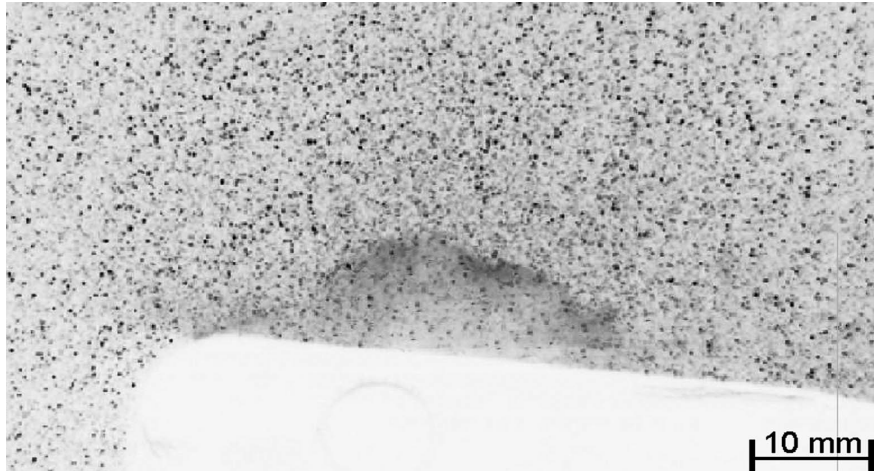
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Flow direction
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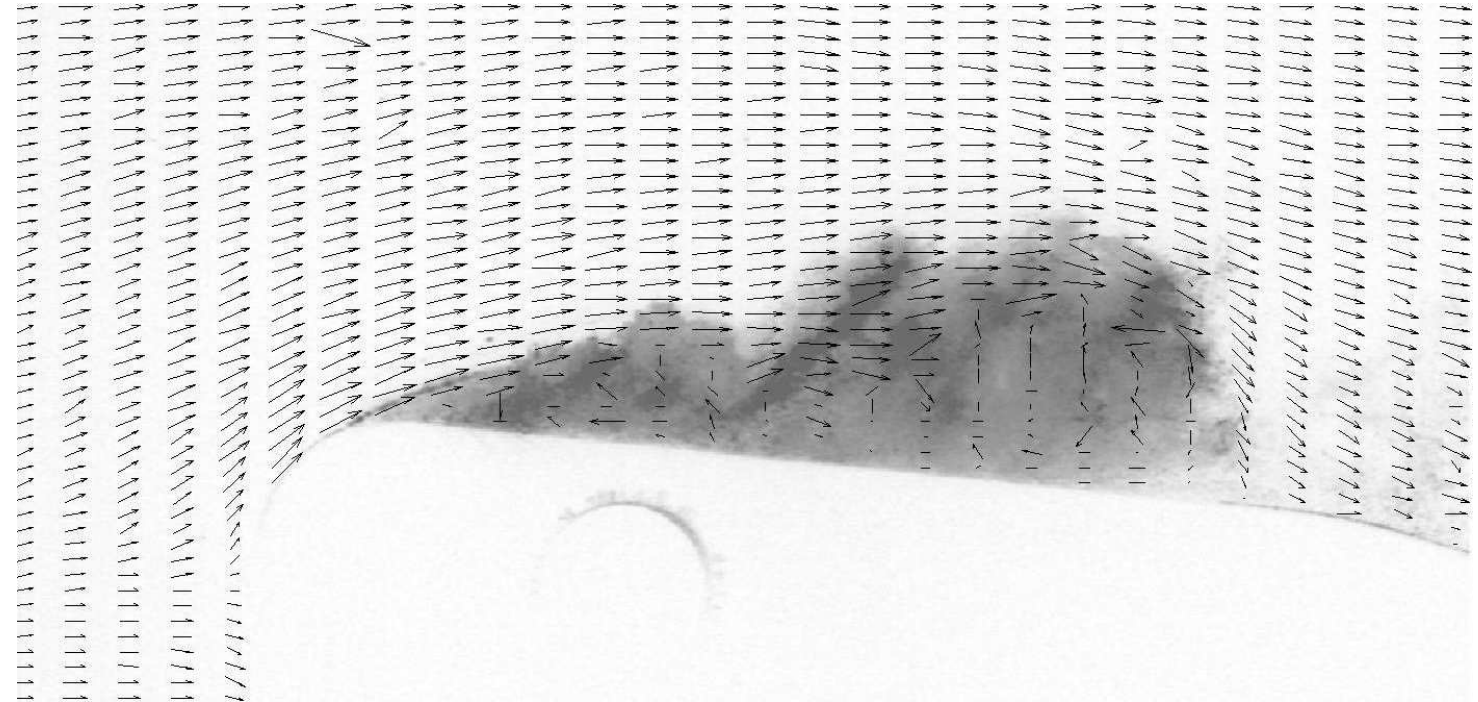
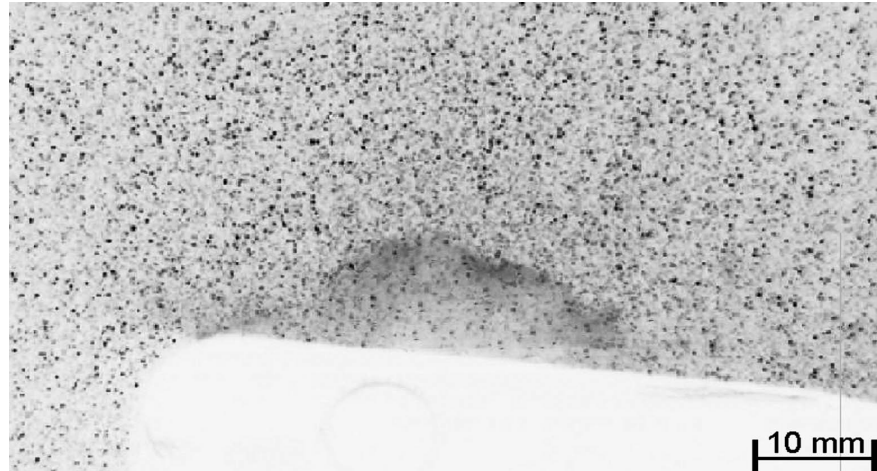
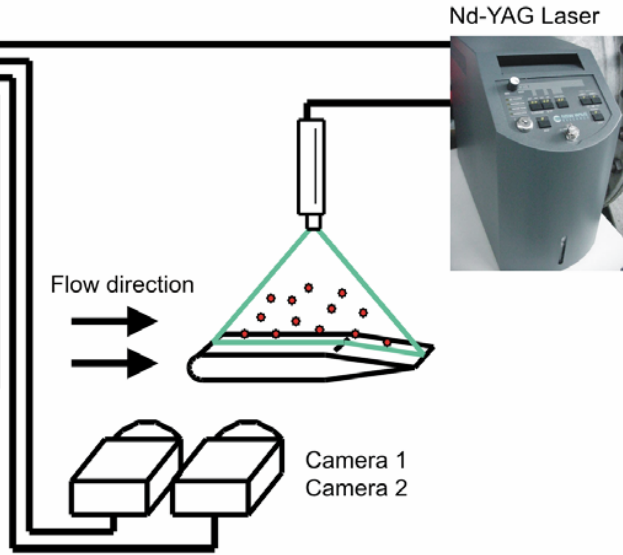
Camera 1
Camera 2



DULAR, Matevž, BACHERT, Rudolf, STOFFEL, Bernd, ŠIROK, Brane. **Experimental evaluation of numerical simulation of cavitating flow around hydrofoil.** *Eur. j. mech. B, Fluids*, vol. 24, iss. 4, pp. 522-538, 2005

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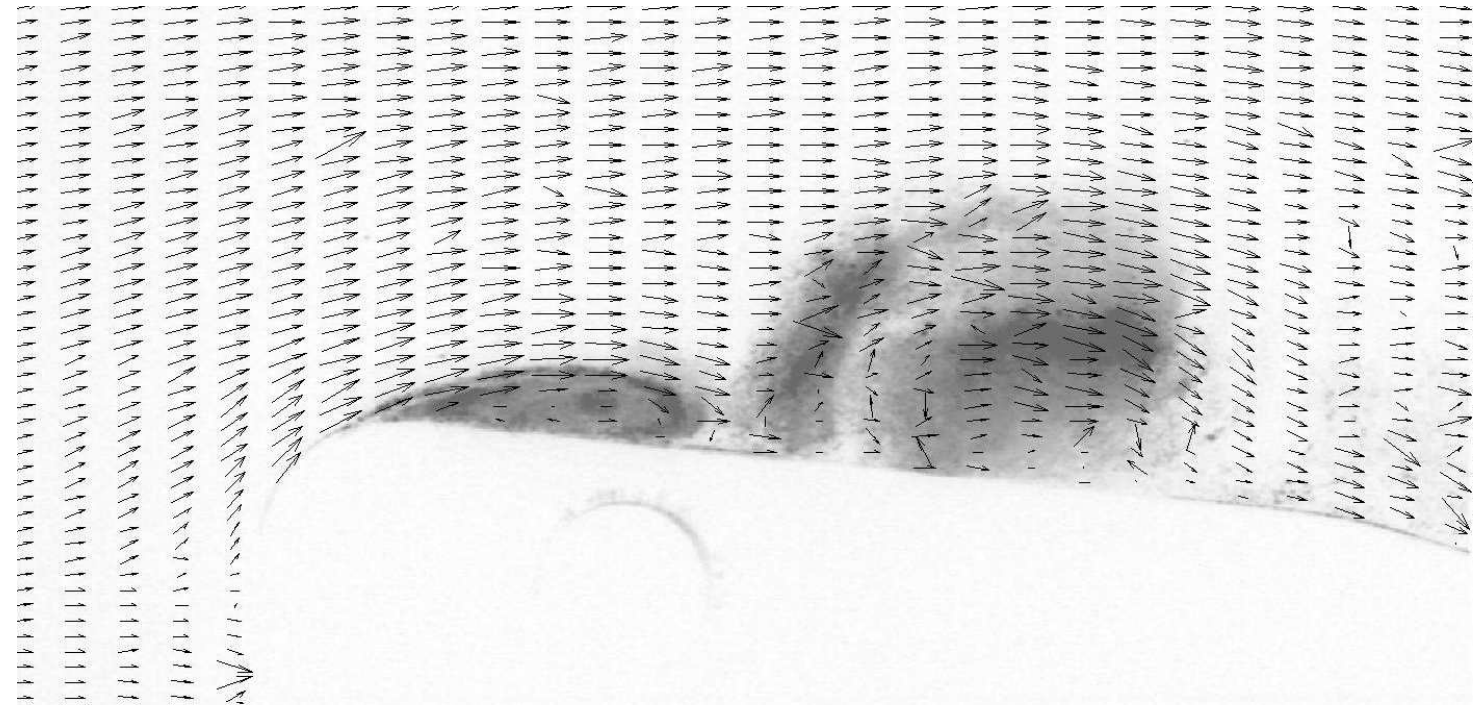
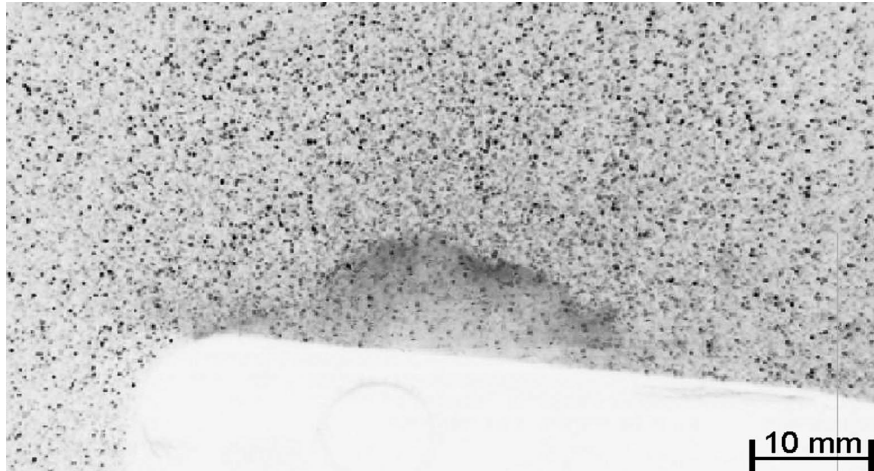
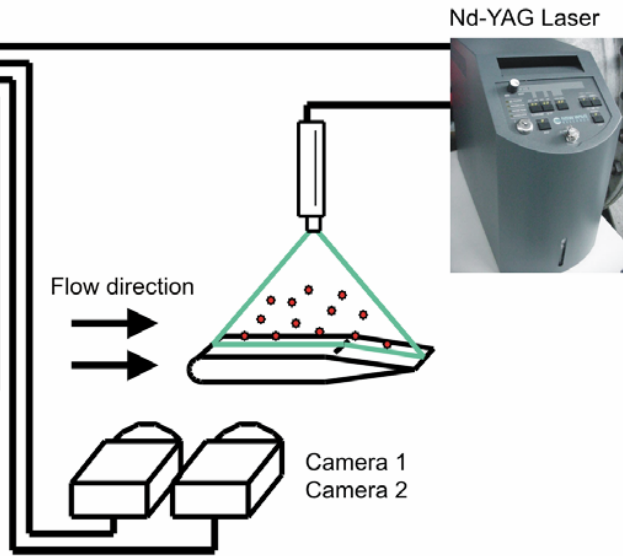
Acquisition & Control Unit



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Flow Map 1501

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Flow Map 1501

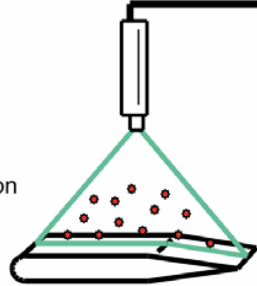
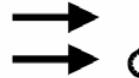
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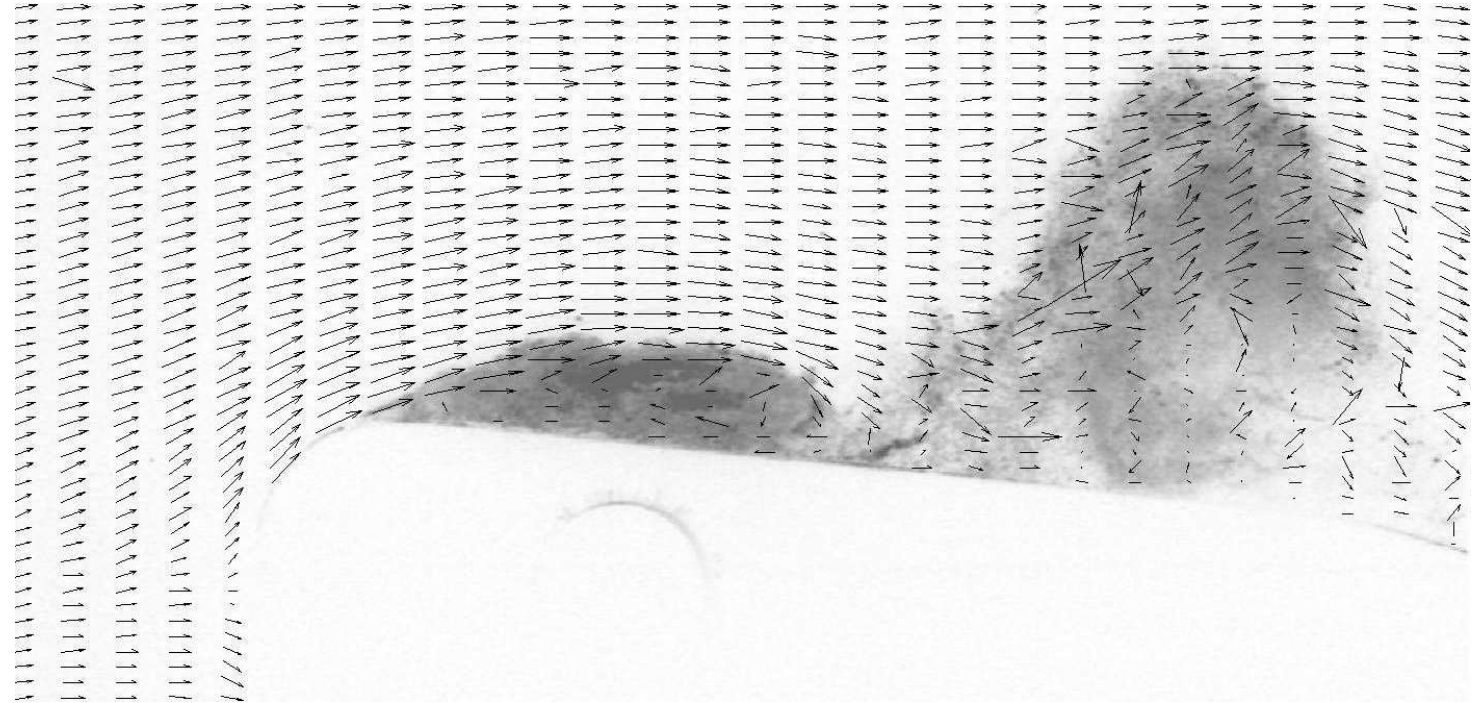
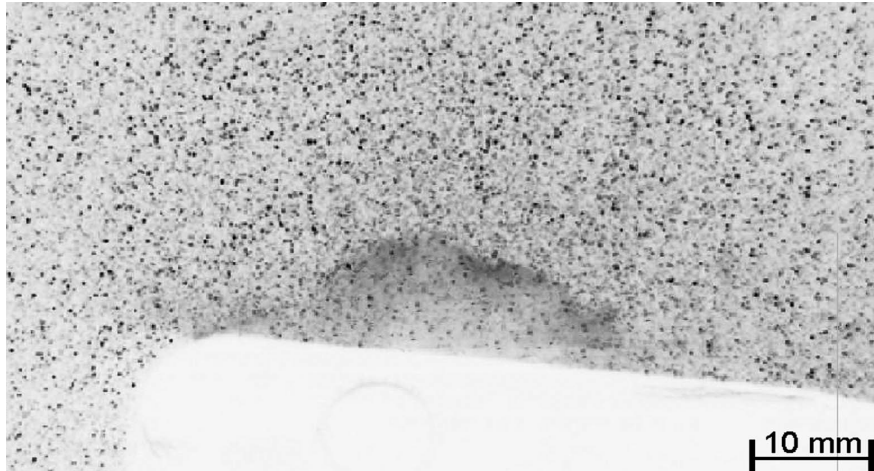
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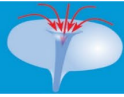
Flow direction



Camera 1
Camera 2



DULAR, Matevž, BACHERT, Rudolf, STOFFEL, Bernd, ŠIROK, Brane. **Experimental evaluation of numerical simulation of cavitating flow around hydrofoil.** *Eur. j. mech. B, Fluids*, vol. 24, iss. 4, pp. 522-538, 2005



Flow Map 1501

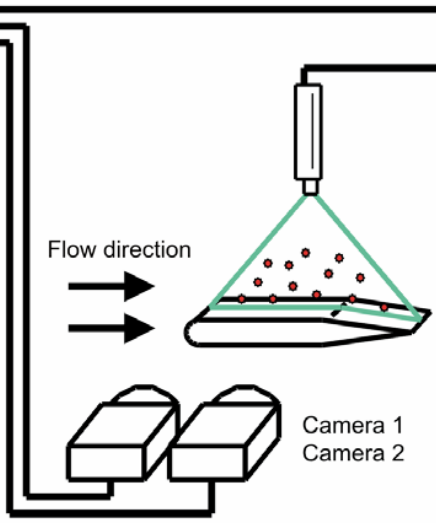
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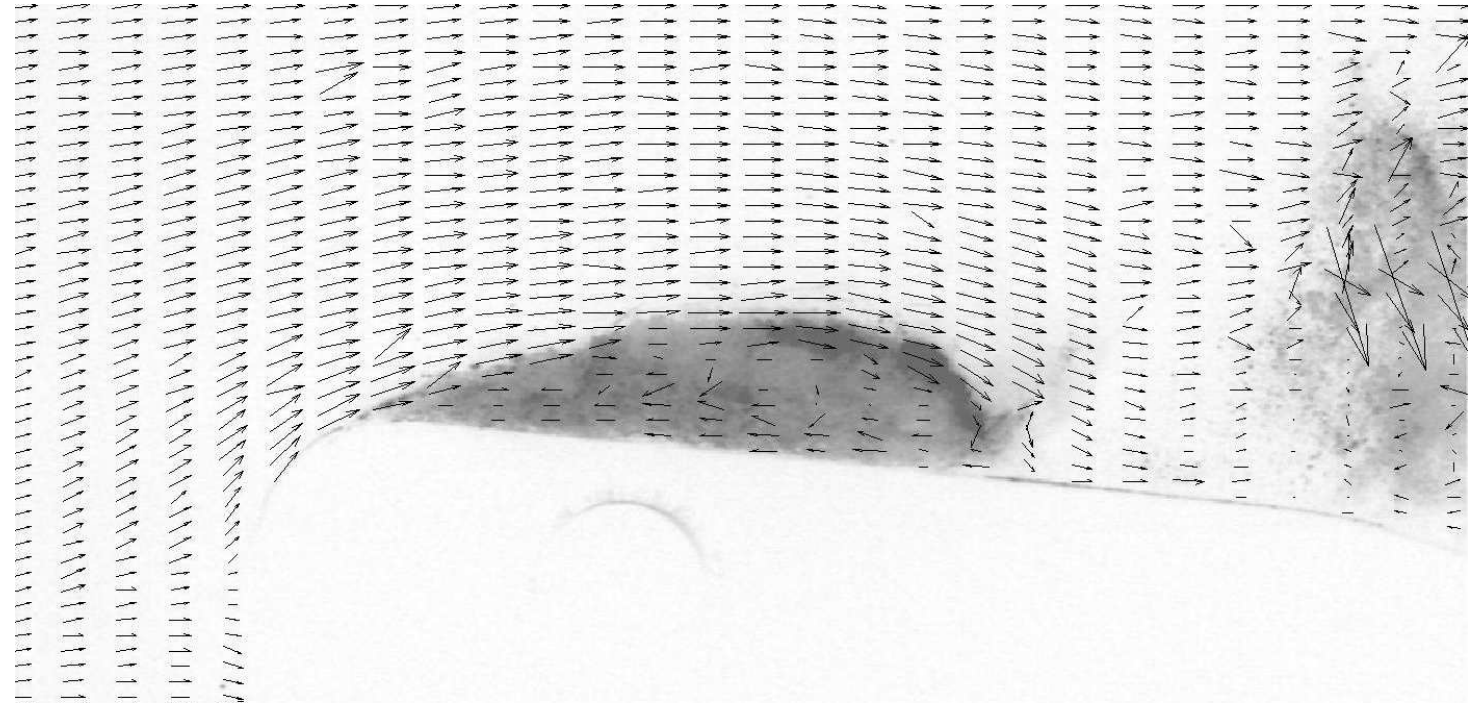
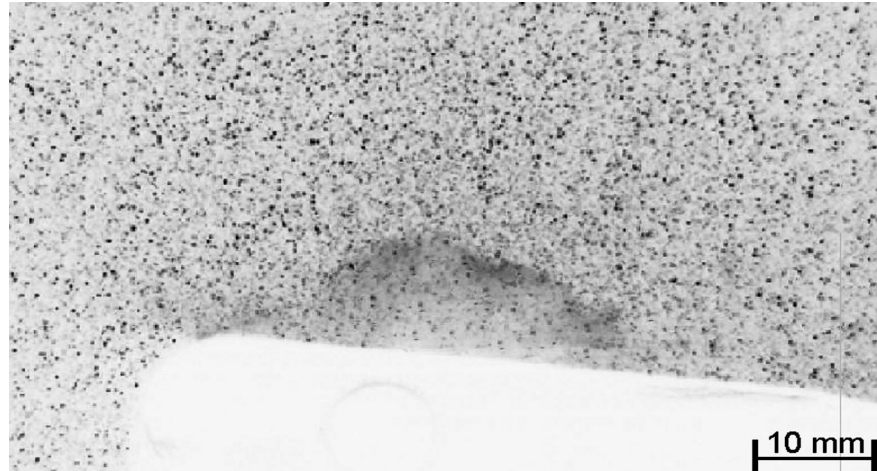
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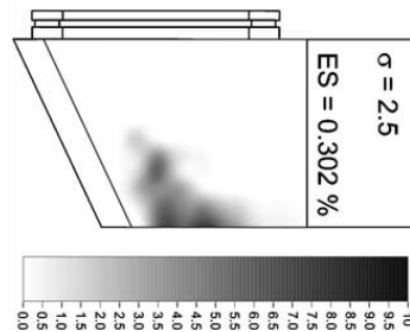
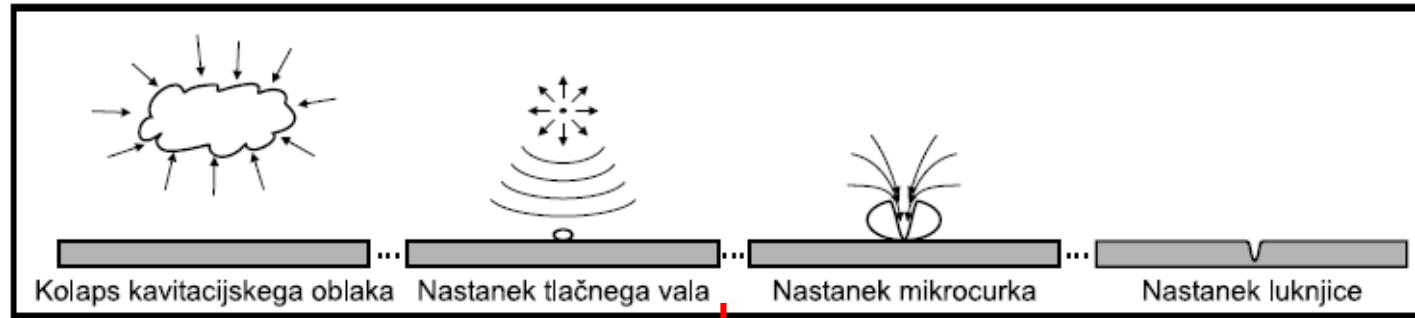
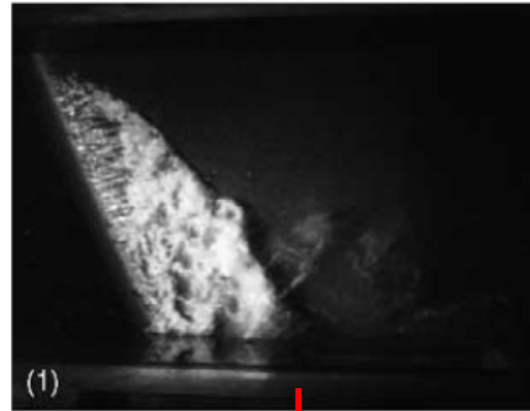
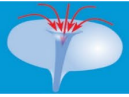
Flow direction
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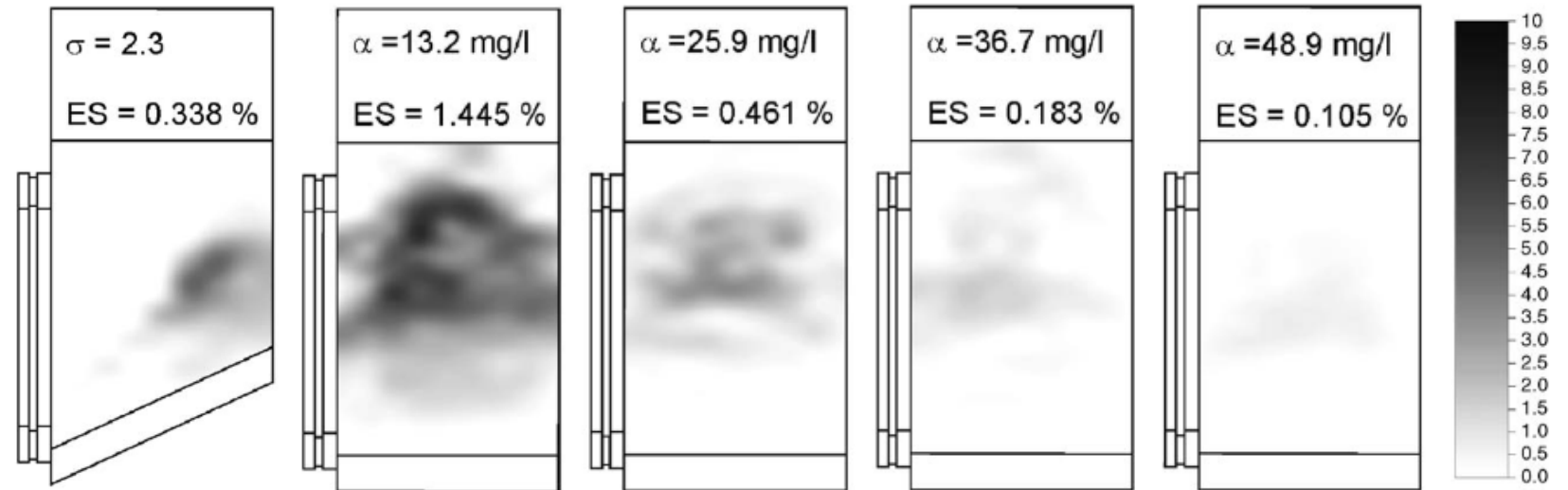
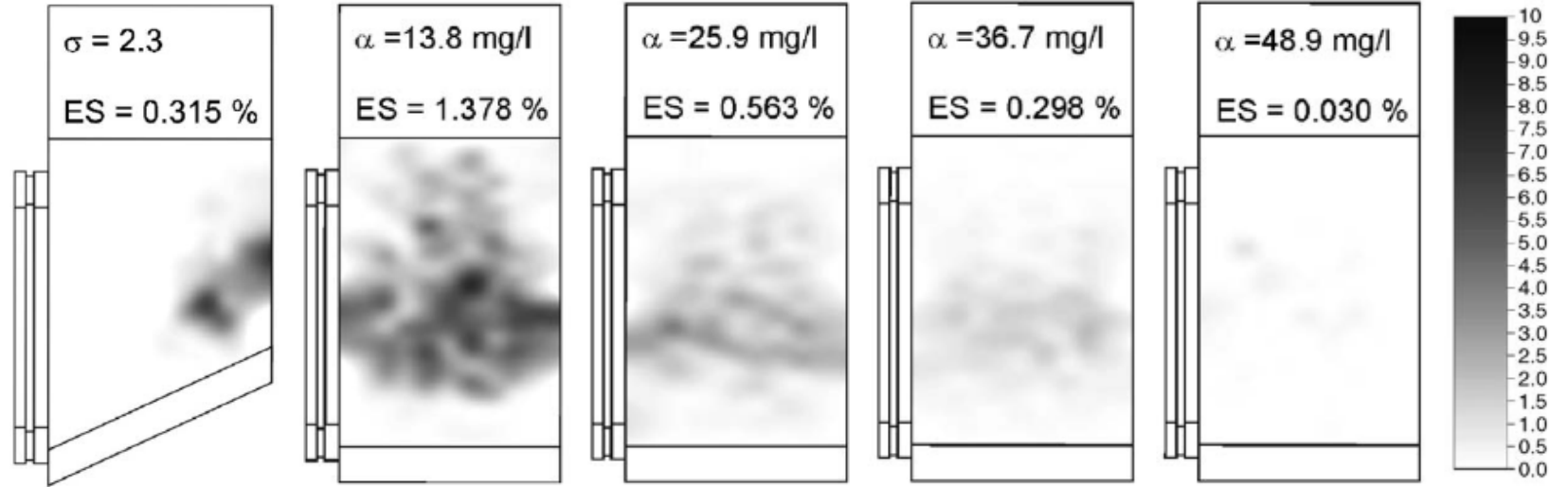


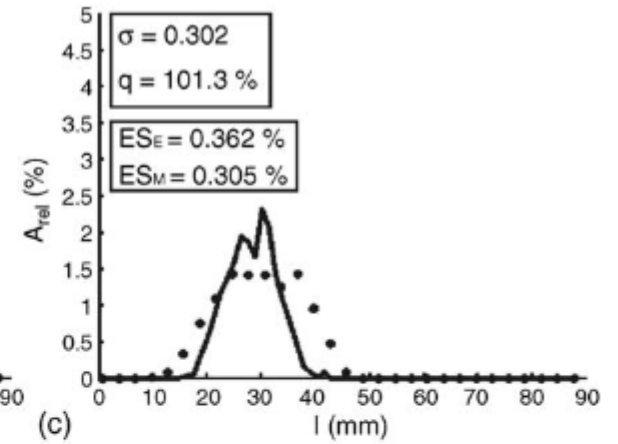
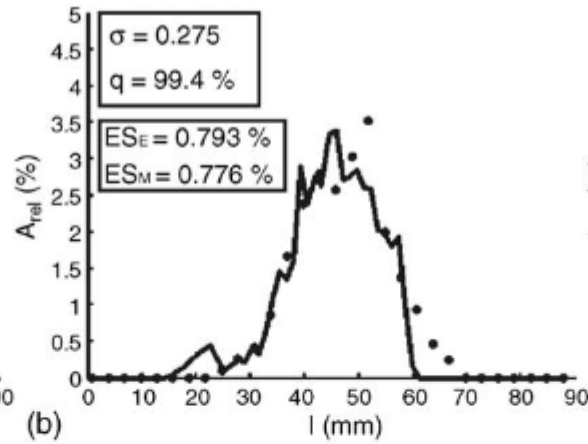
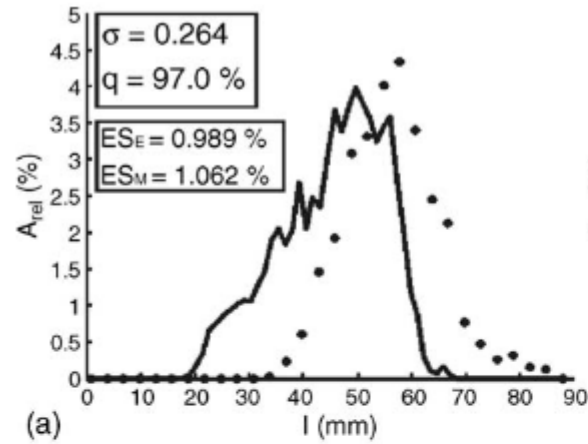
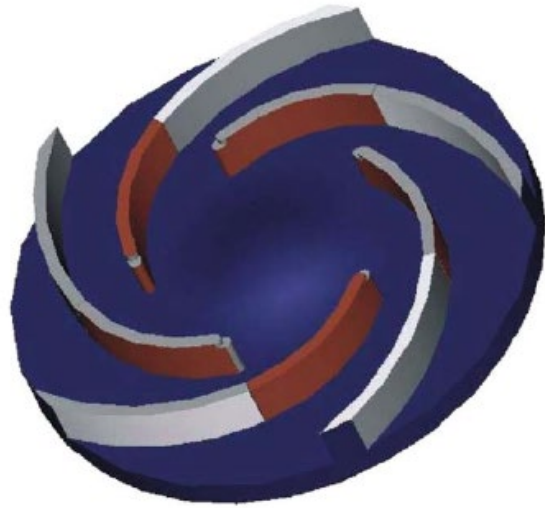
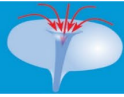
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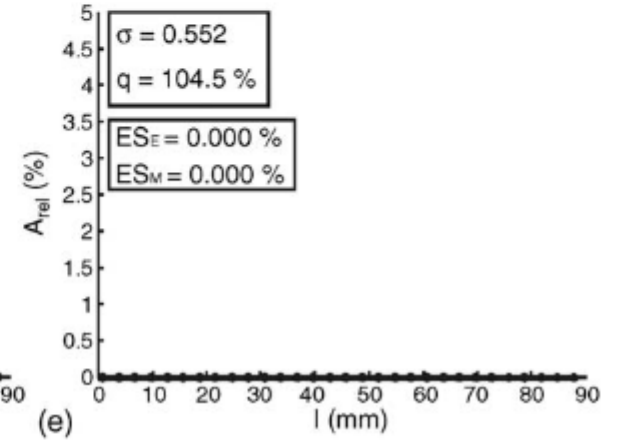
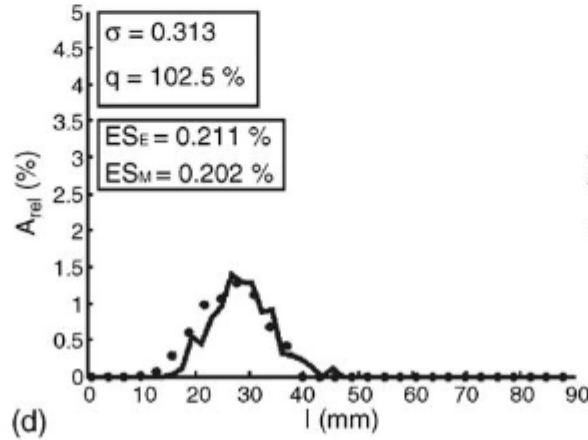
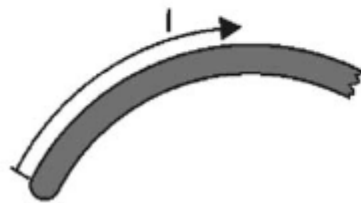
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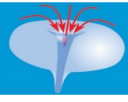






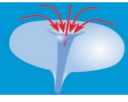
• Experiment
— Model



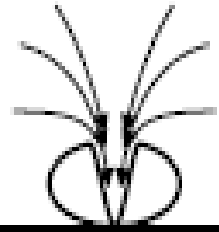
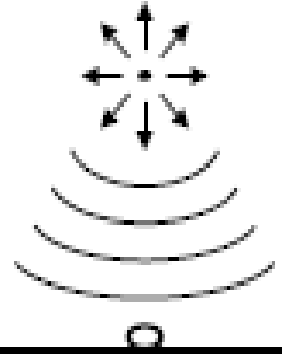
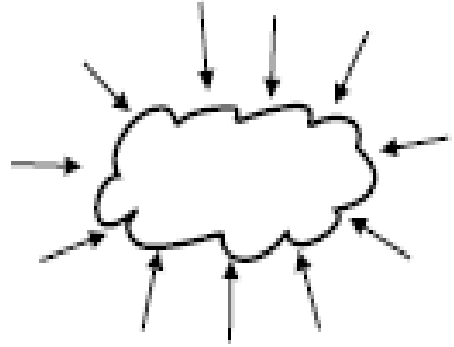


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TEST DOKTORATA (2012-2015)

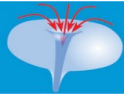


Kolaps kavitacijskega oblaka

Nastanek tlačnega vala

Nastanek mikrocurka

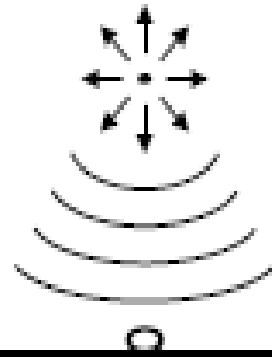
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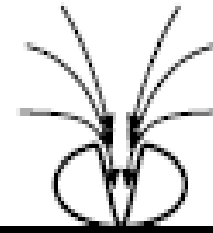
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Kolaps kavitacijskega oblaka



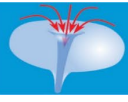
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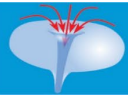
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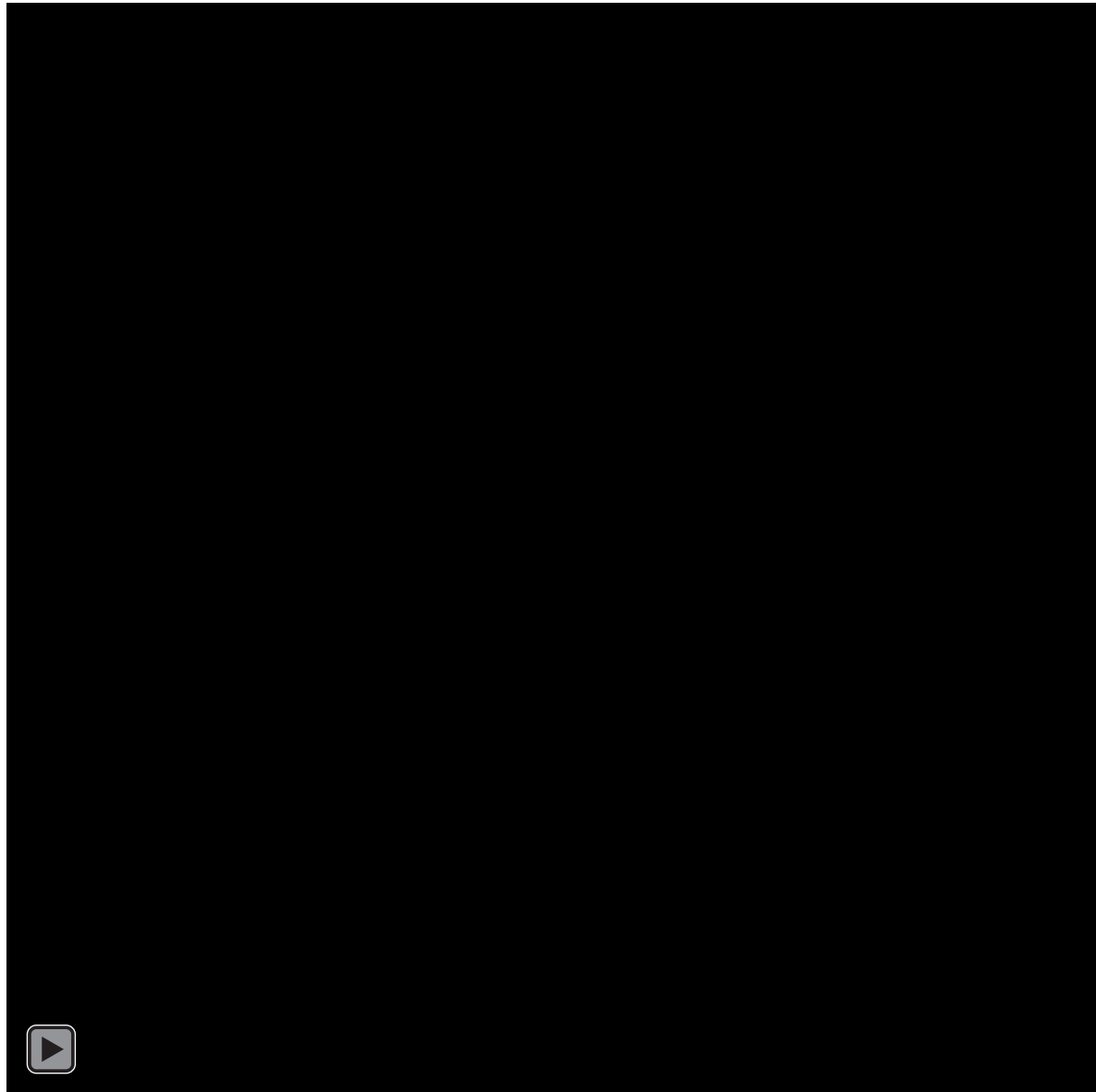
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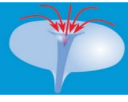


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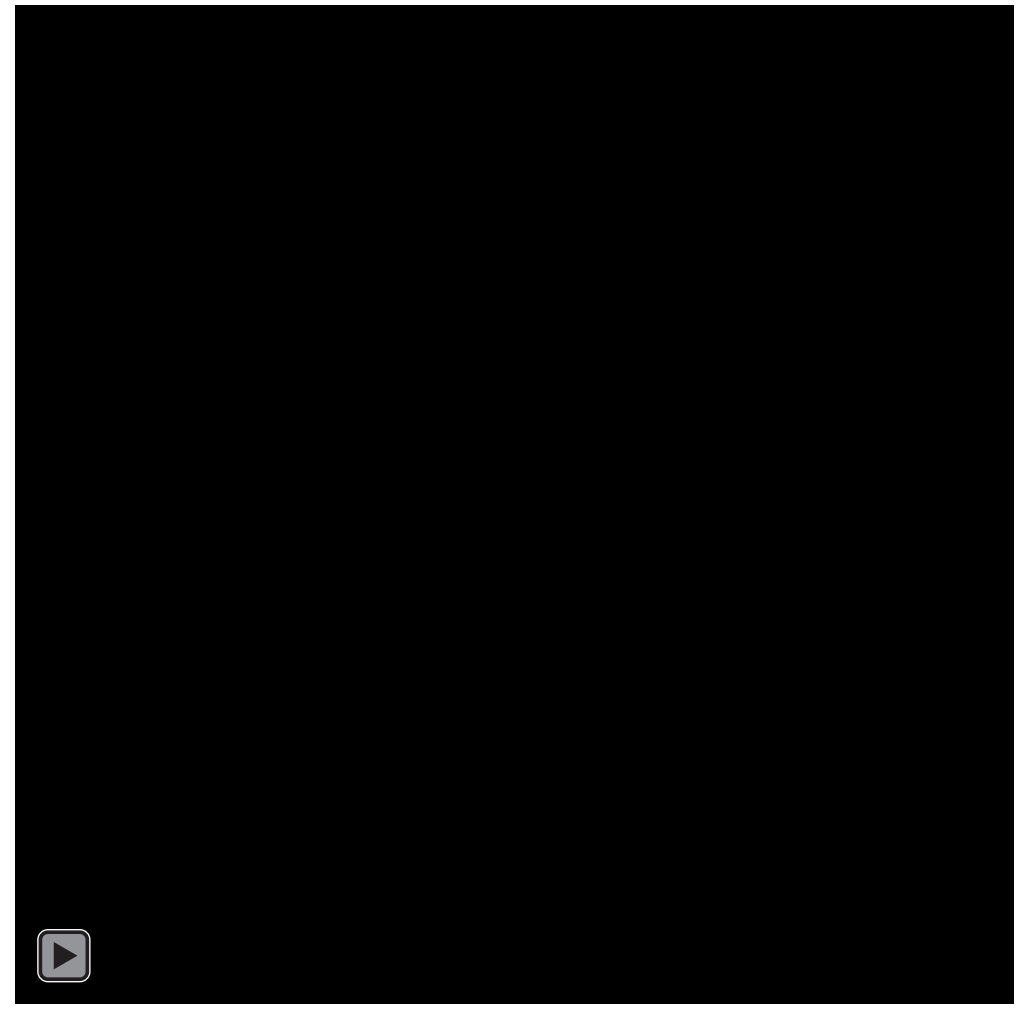
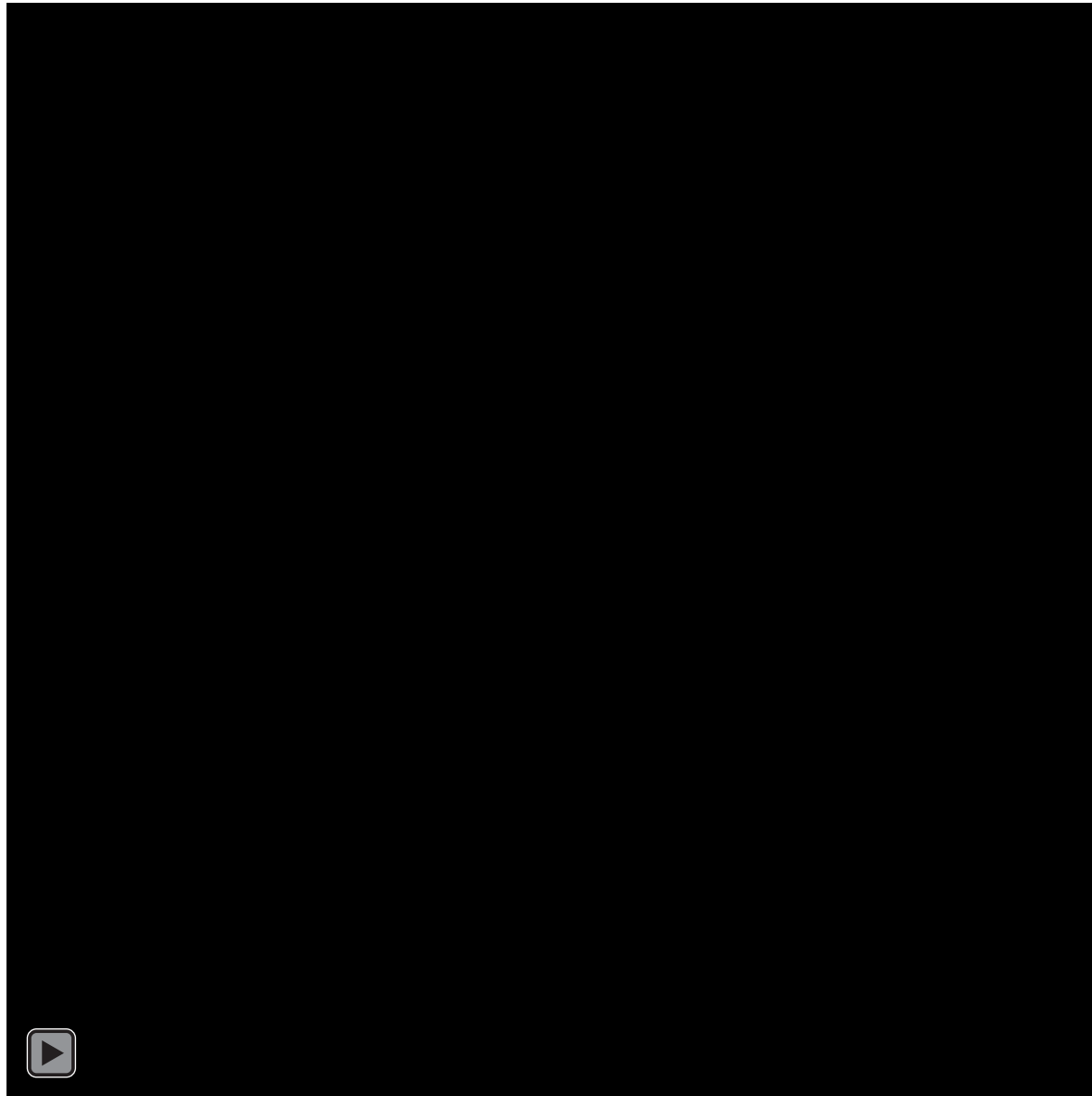


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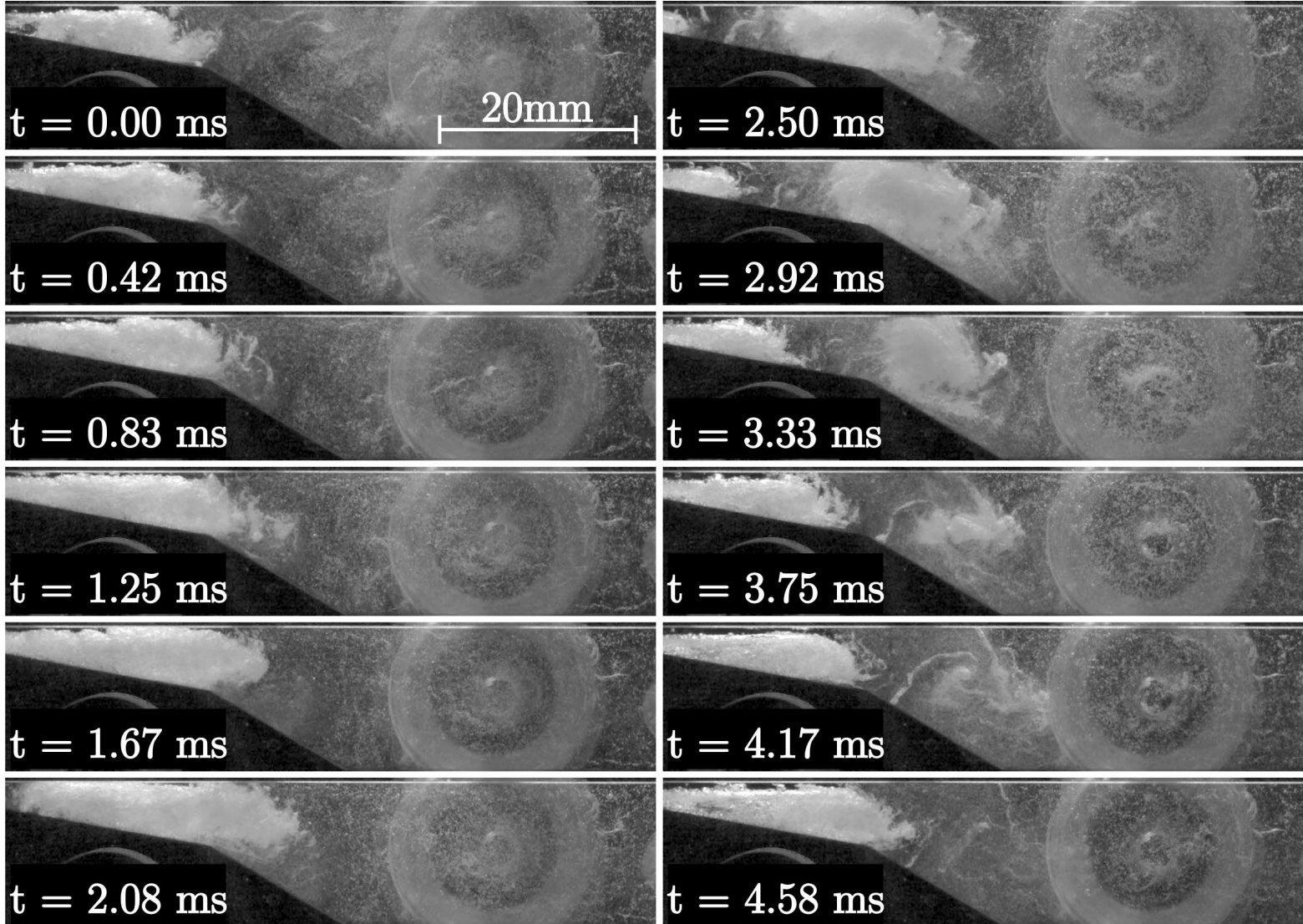


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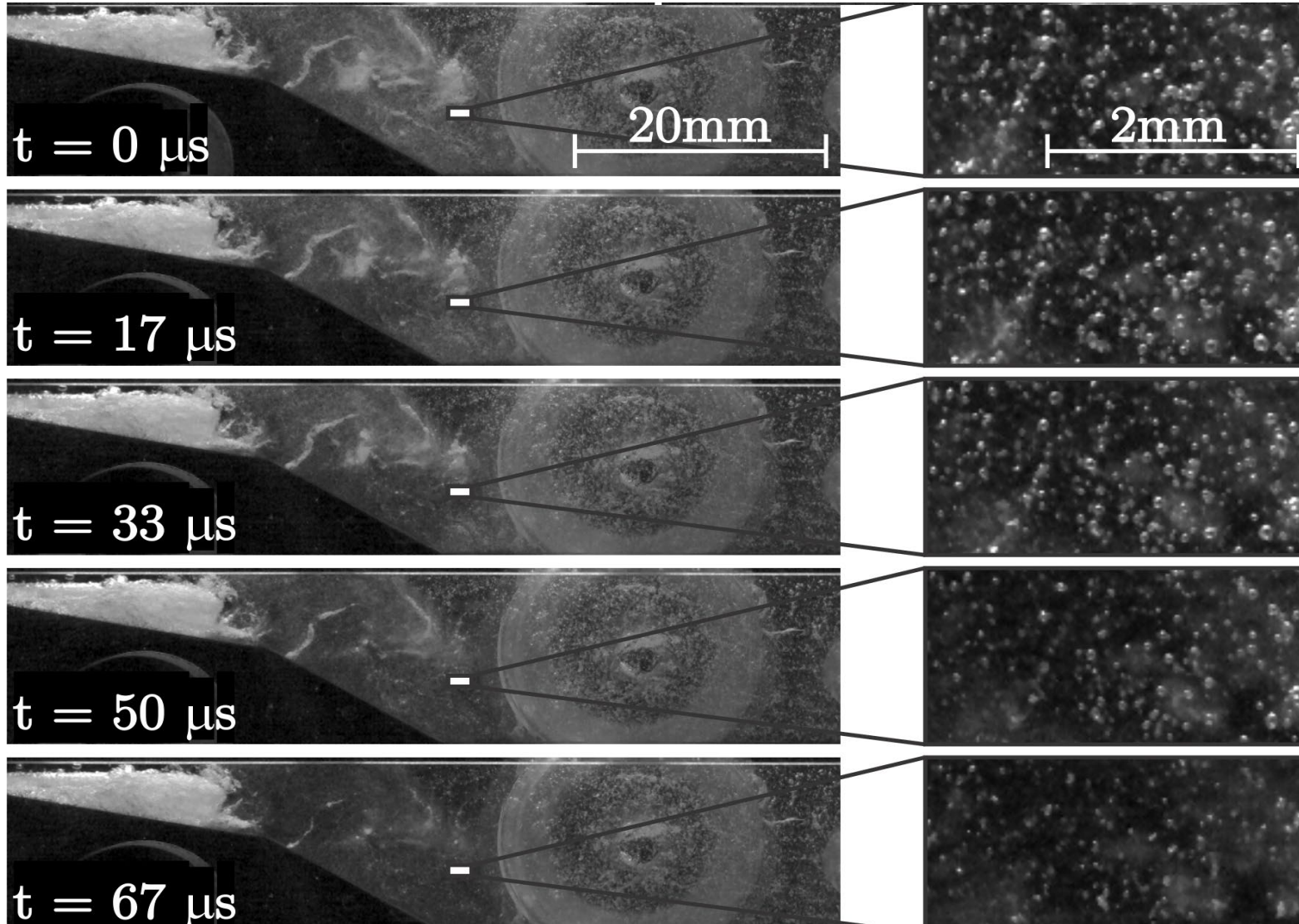
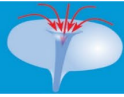




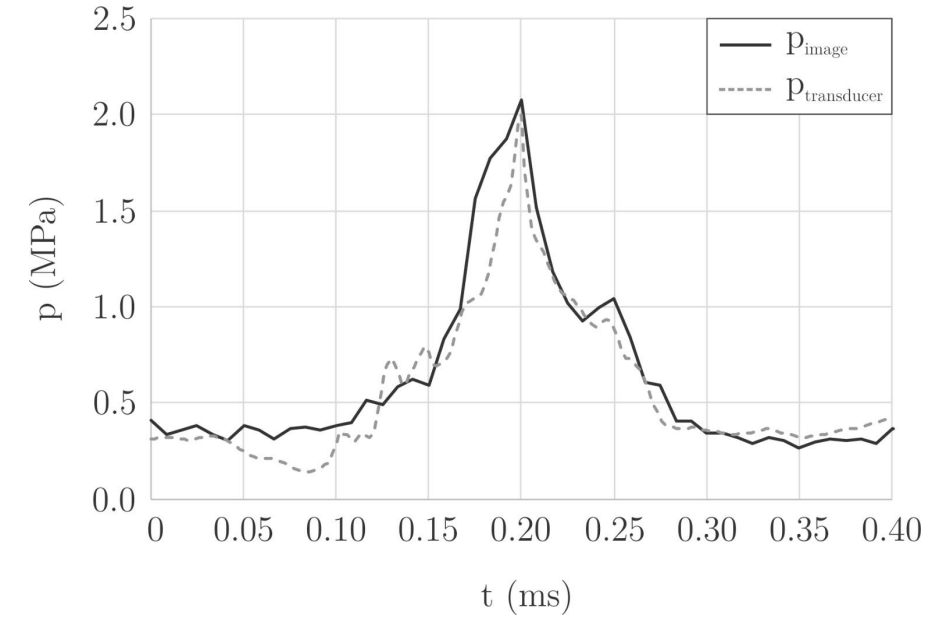
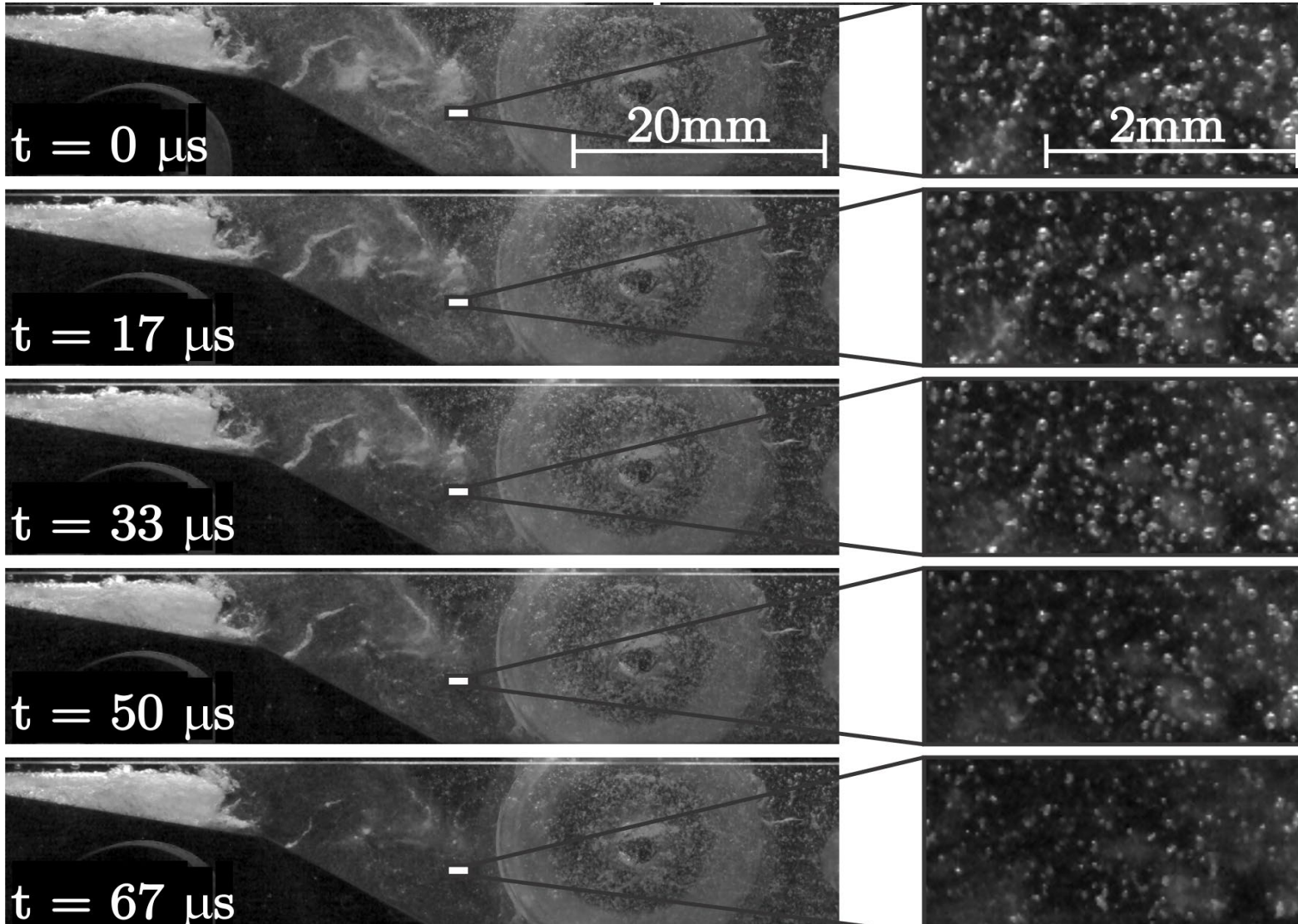
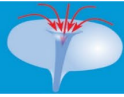
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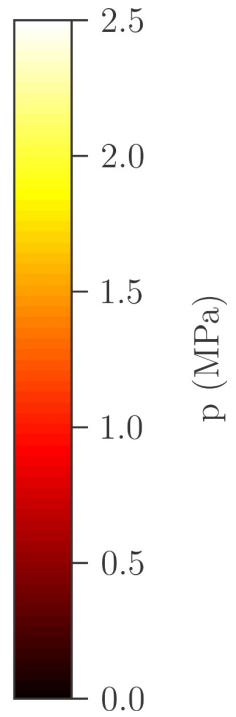
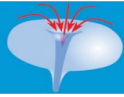
PETKOVŠEK, Martin, HOČEVAR, Marko, DULAR, Matevž. **Visualization and measurements of shock waves in cavitating flow.** *Experimental thermal and fluid science*. 2020, vol. 119



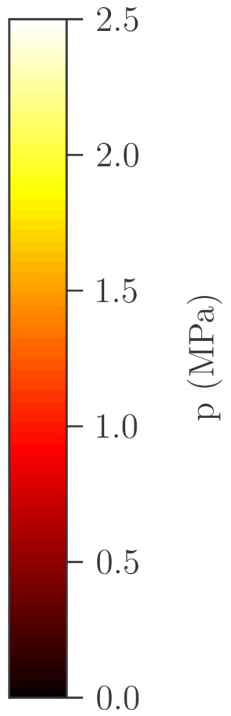
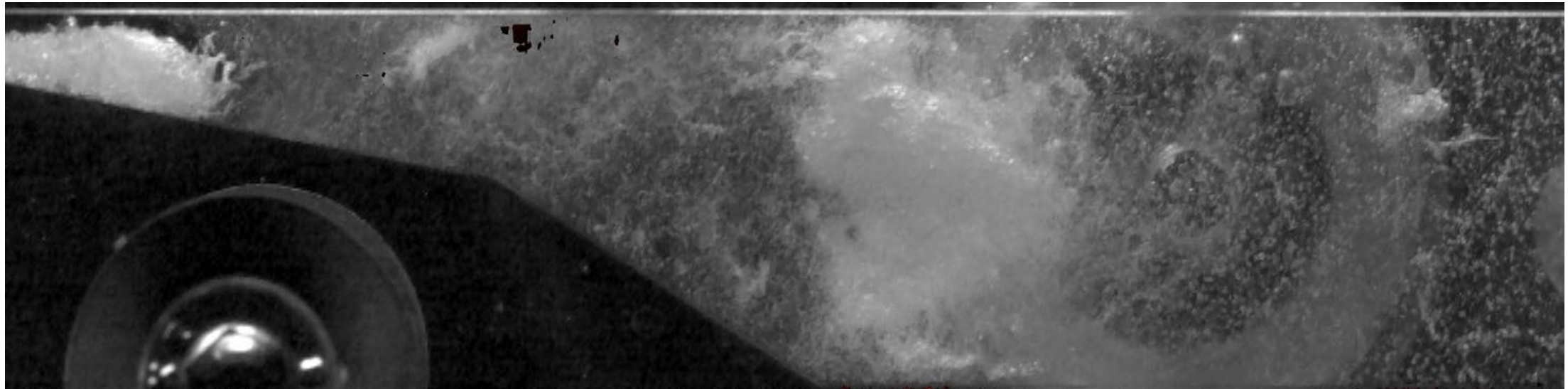
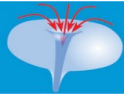
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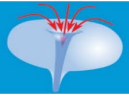
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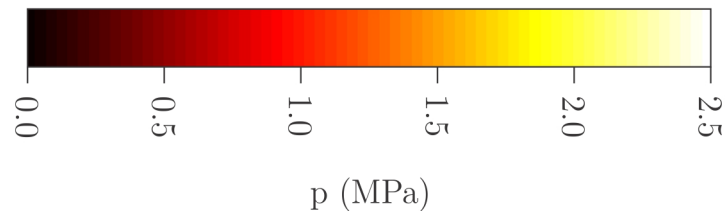
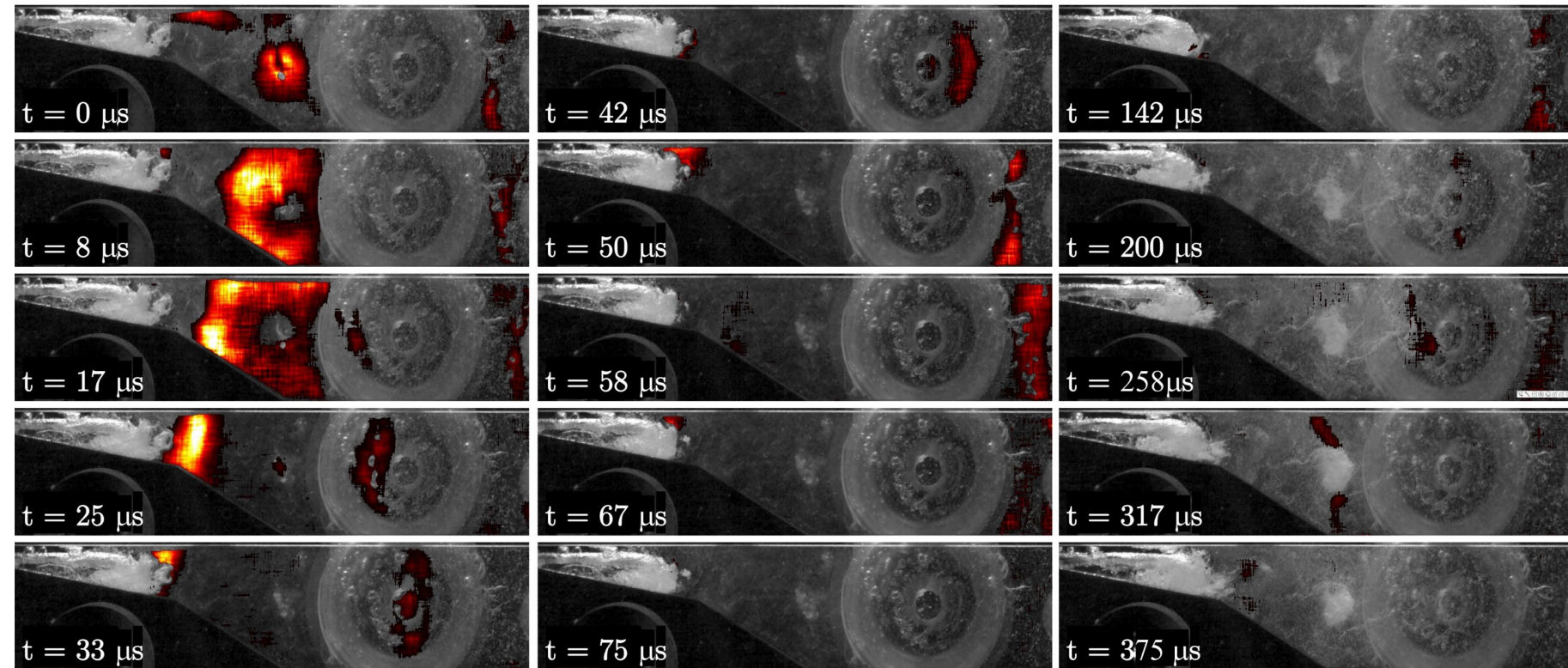
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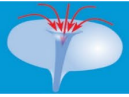
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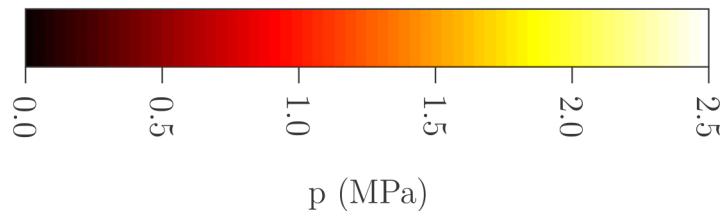
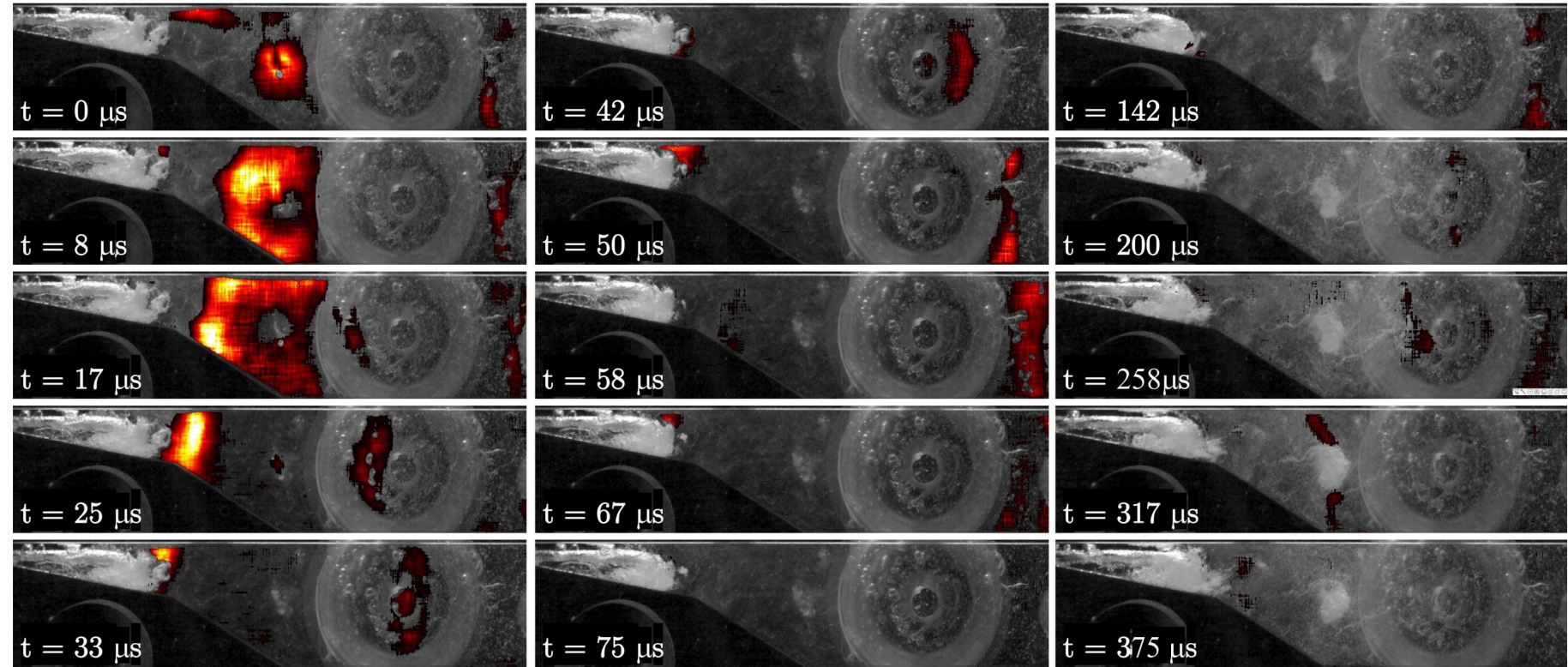
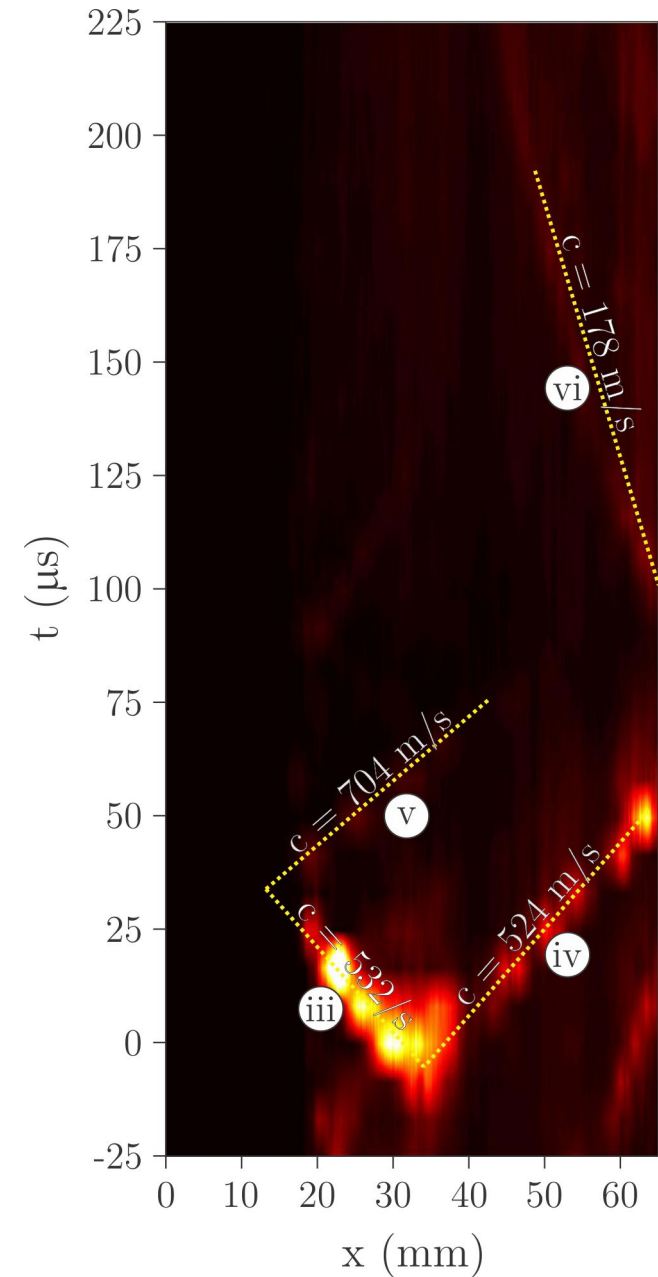
TEST DOKTORATA (2012-2019)



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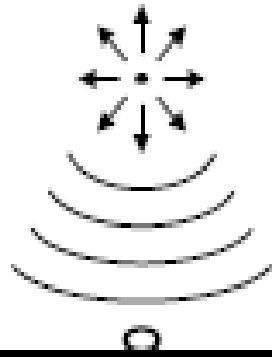
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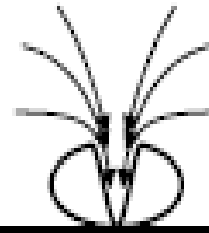
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Kolaps kavitacijskega oblaka



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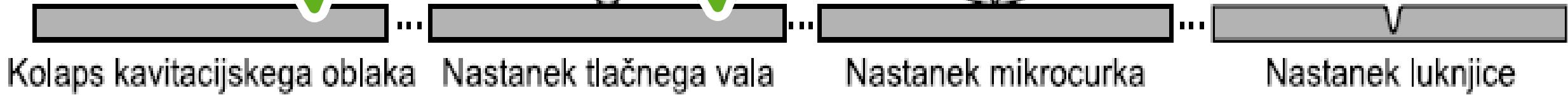
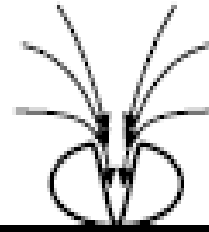
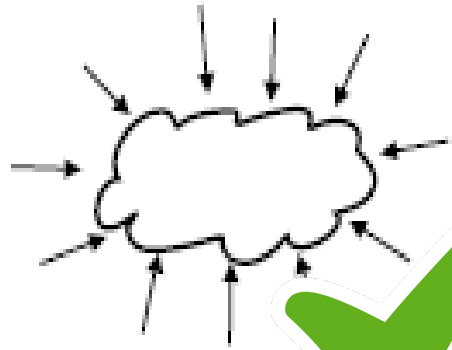
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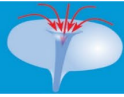


Nastanek luknjice

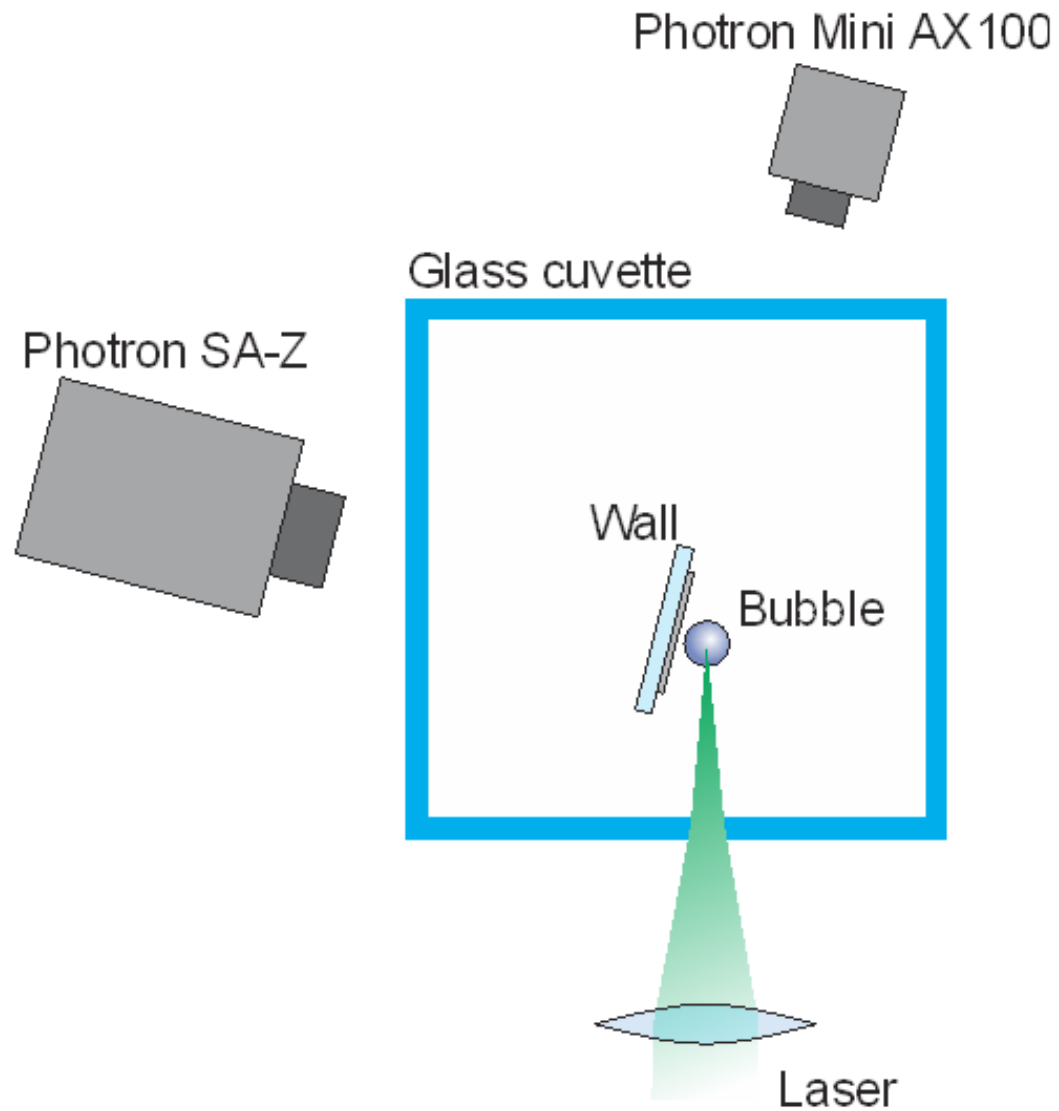


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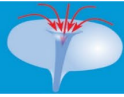




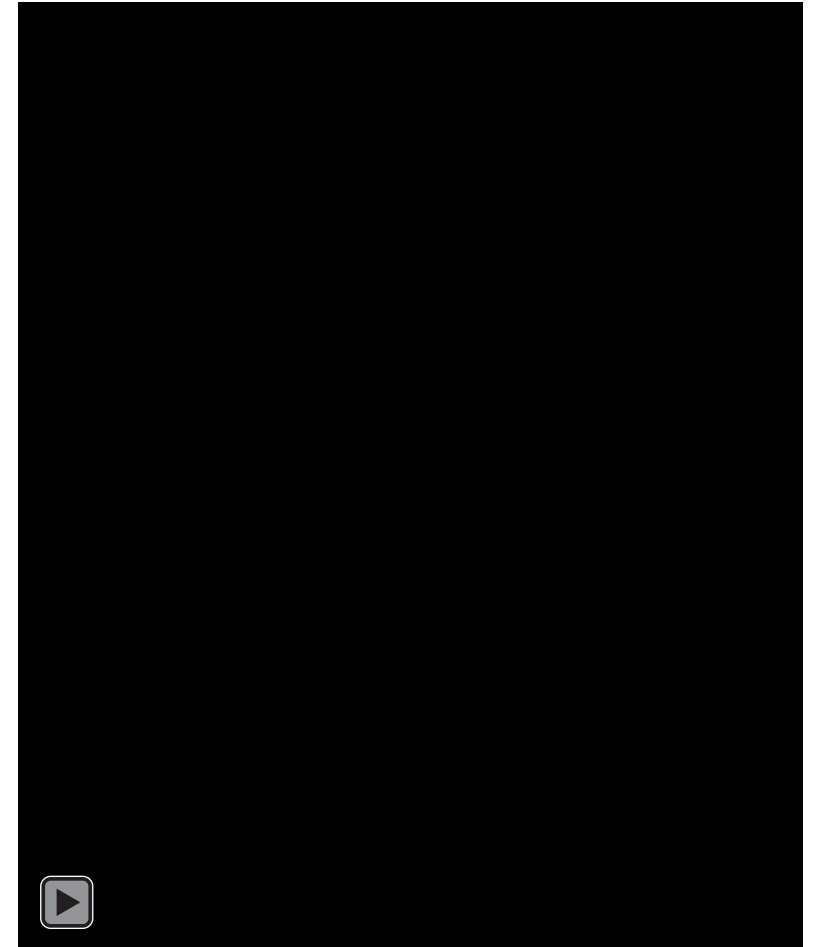
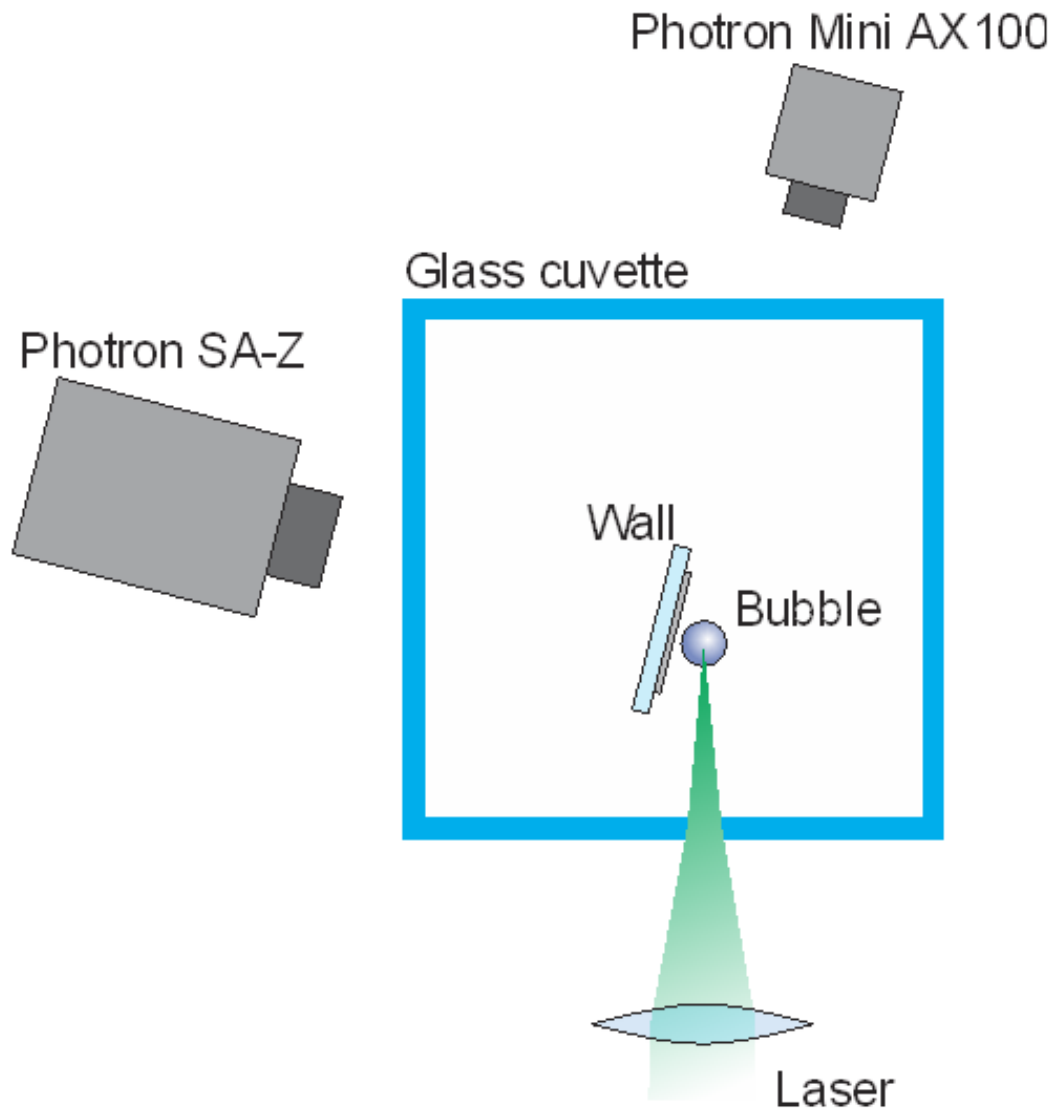
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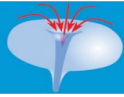
Matevz, DULAR, Tomaž POŽAR, Jure ZEVNIK, Rok PETKOVSEK. **High speed observation of damage created by a collapse of a single cavitation bubble**, *Wear*, Vol. 418-419, pp. 13-23, 2019



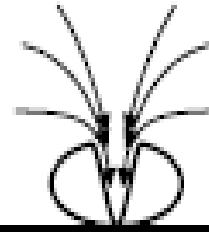
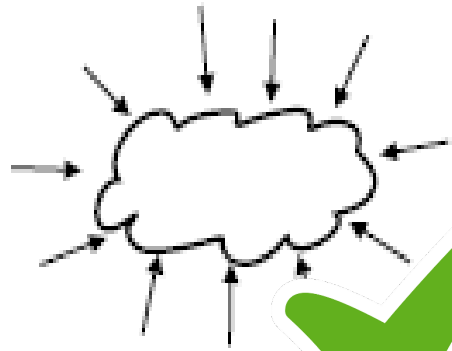
TEST DOKTORATA (2012-2019)



Matevz, DULAR, Tomaž POŽAR, Jure ZEVNIK, Rok PETKOVSEK. **High speed observation of damage created by a collapse of a single cavitation bubble**, *Wear*, Vol. 418-419, pp. 13-23, 2019



TEST DOKTORATA (2012-2019)

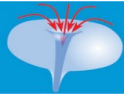


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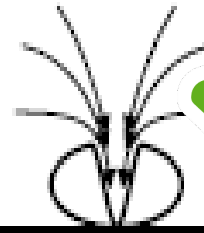
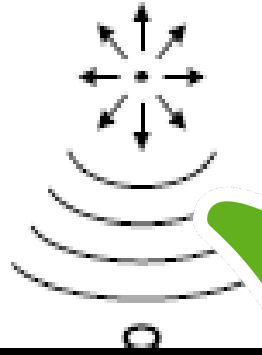
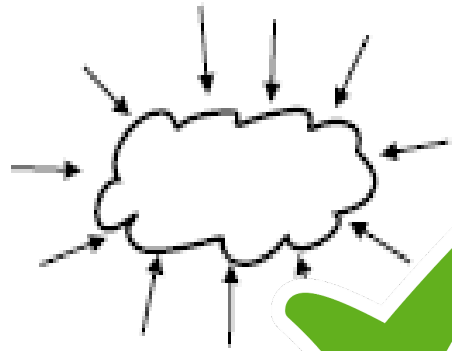
Nastanek tlačnega vala

Nastanek mikrocurka

Nastanek luknjice



TEST DOKTORATA (2012-2019)



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Kolaps kavitacijskega oblaka

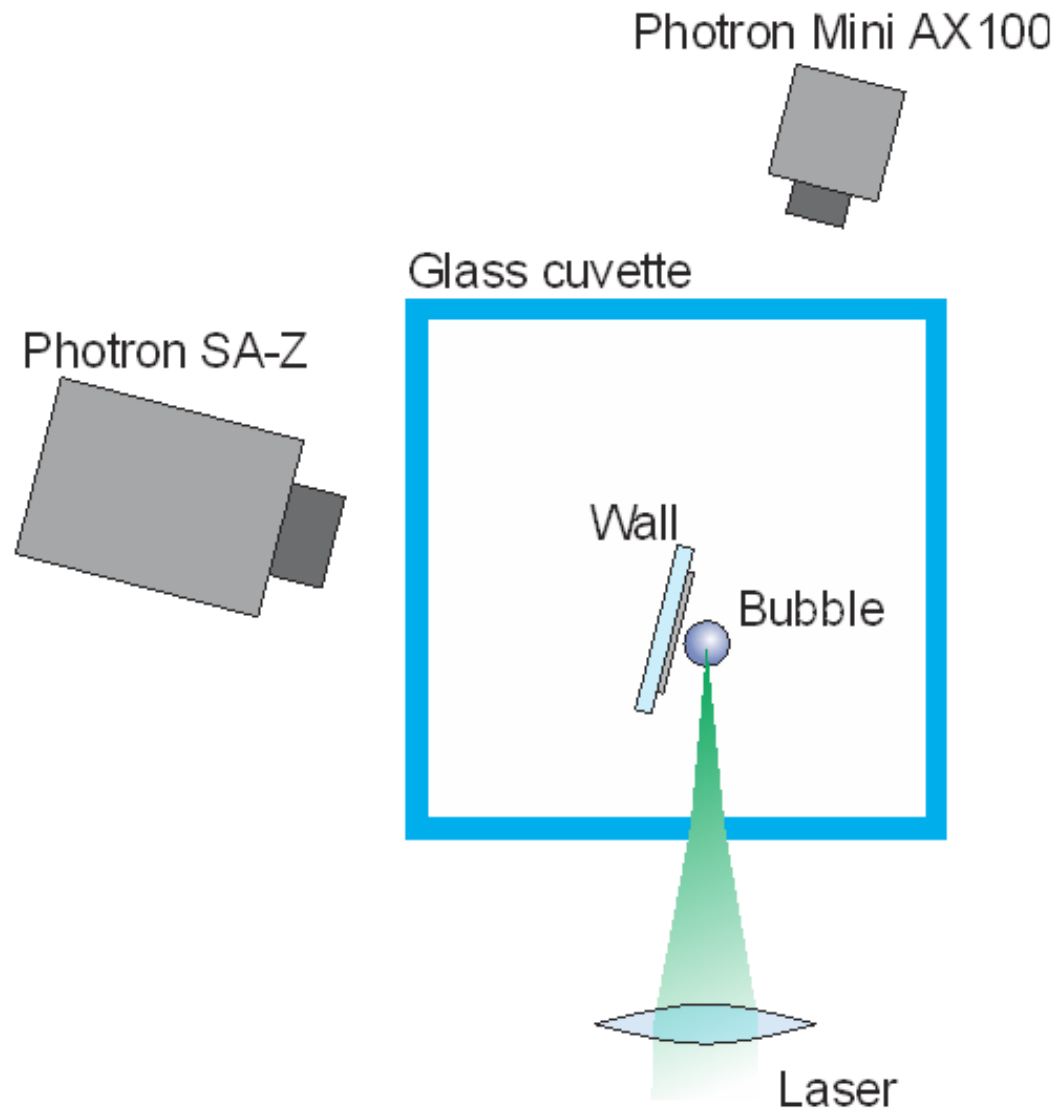
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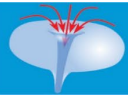
Nastanek mikrocurka

Nastanek luknjice

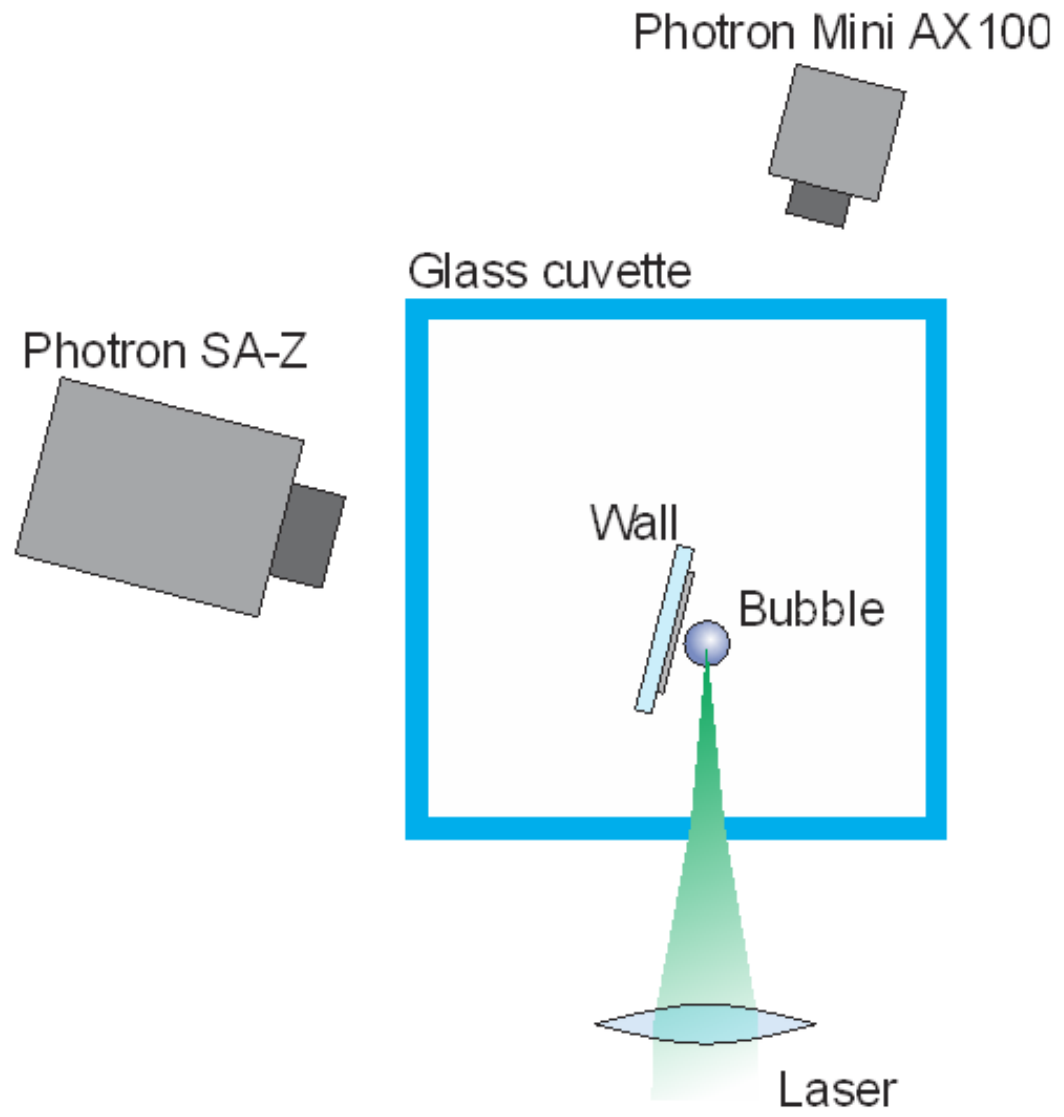


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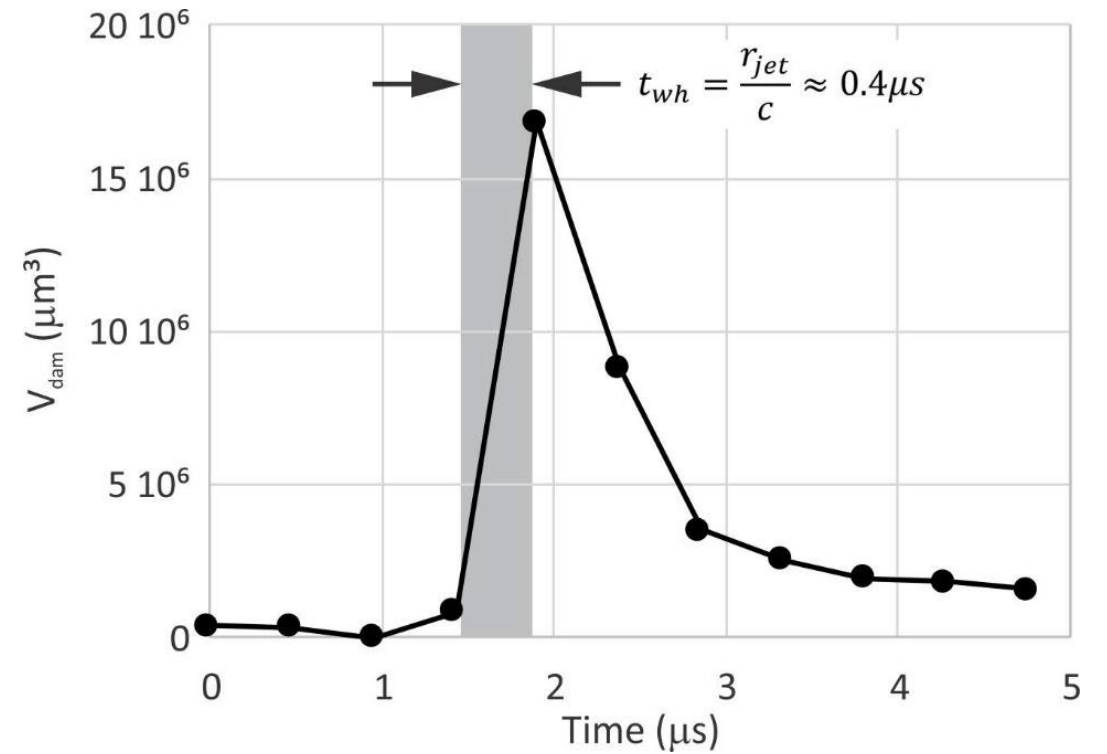
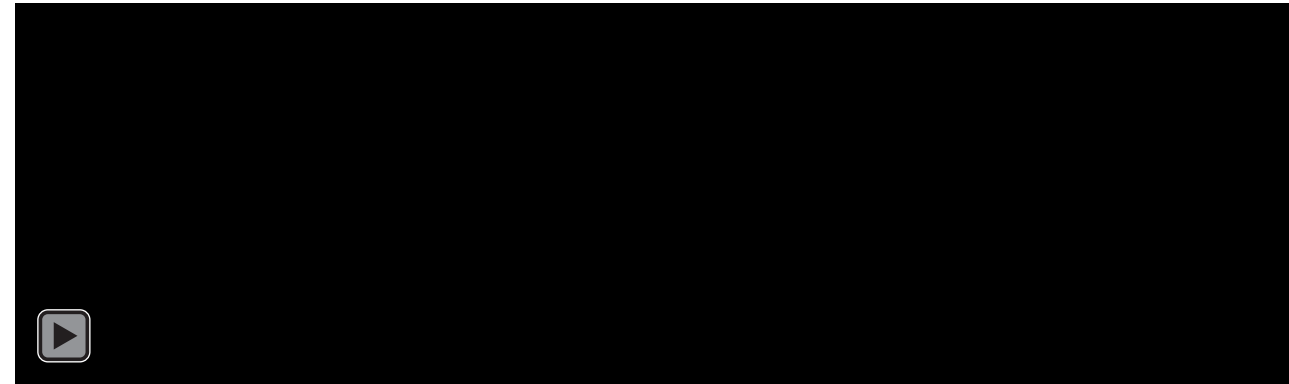
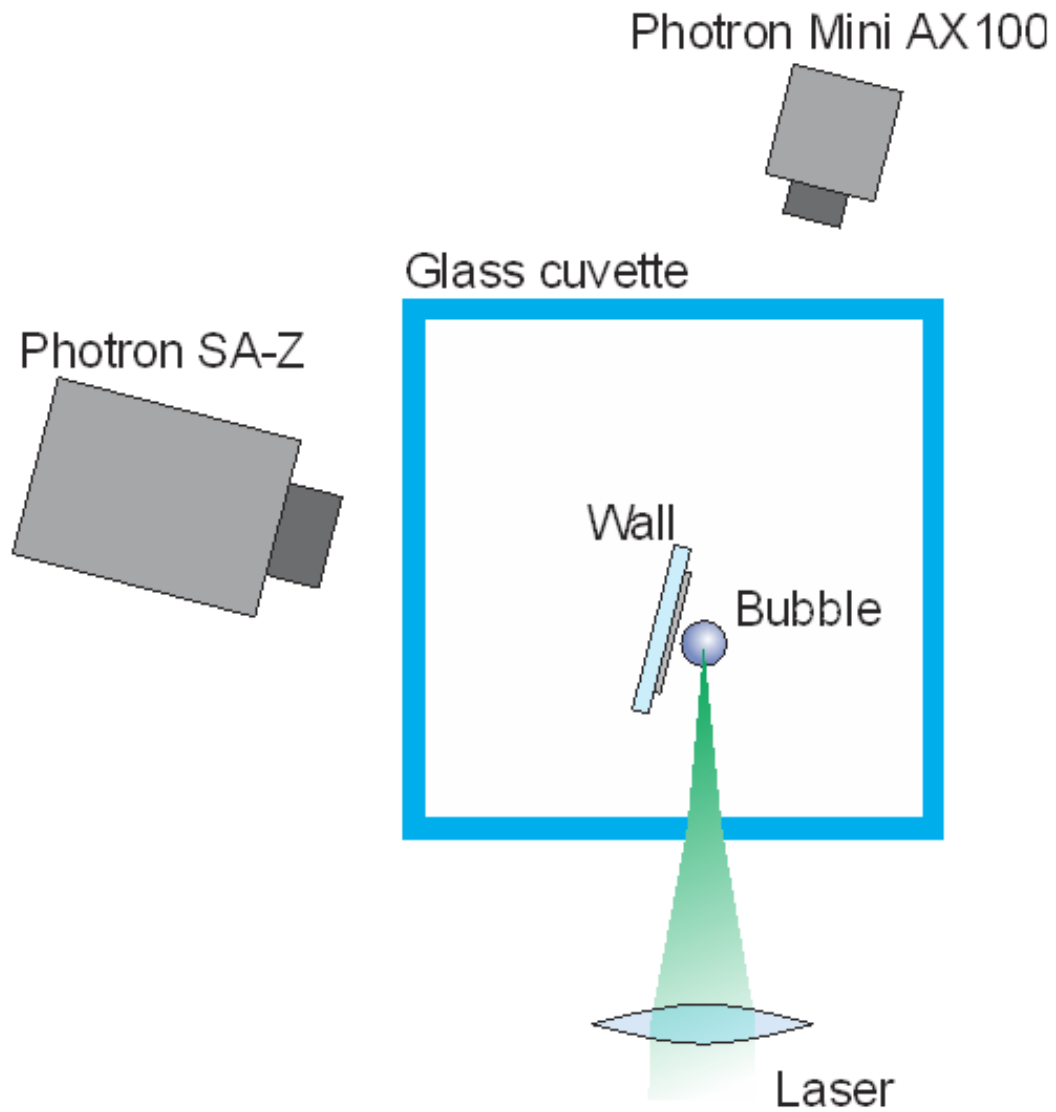


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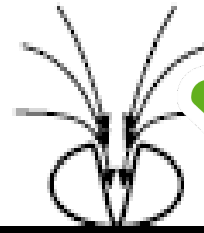
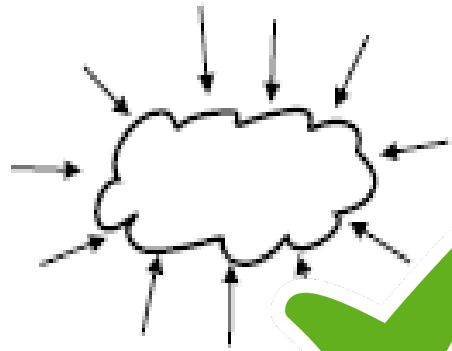


TEST DOKTORATA (2012-2019)





TEST DOKTORATA (2012-2019)



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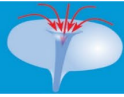


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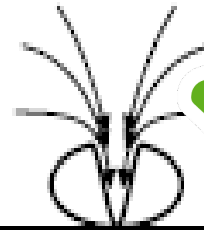
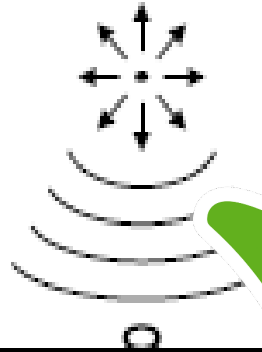
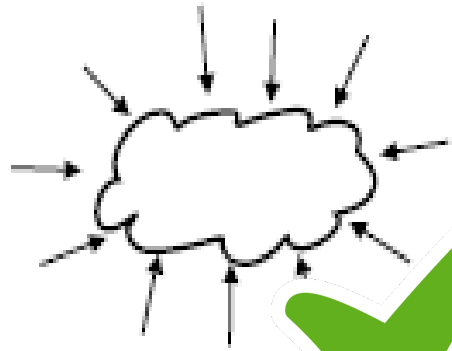
Nastanek tlačnega vala

Nastanek mikrocurka

Nastanek luknjice



TEST DOKTORATA (2012-2019)

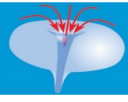


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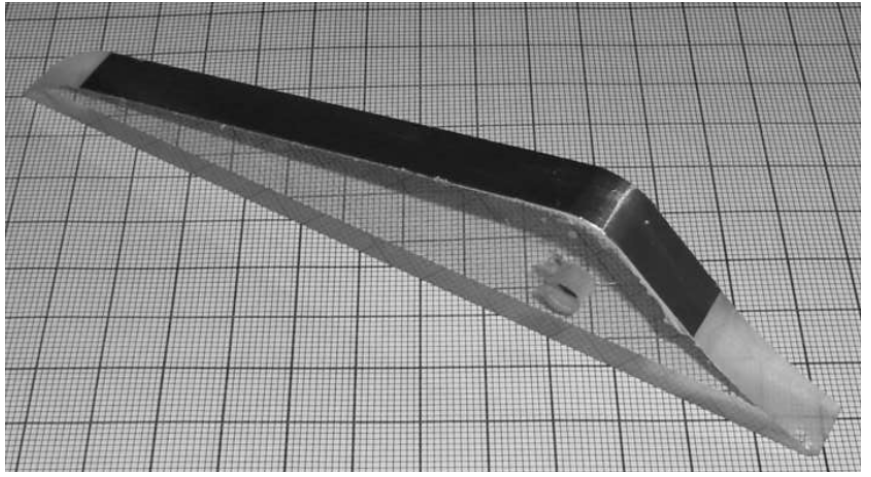
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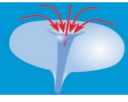
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Nastanek luknjice

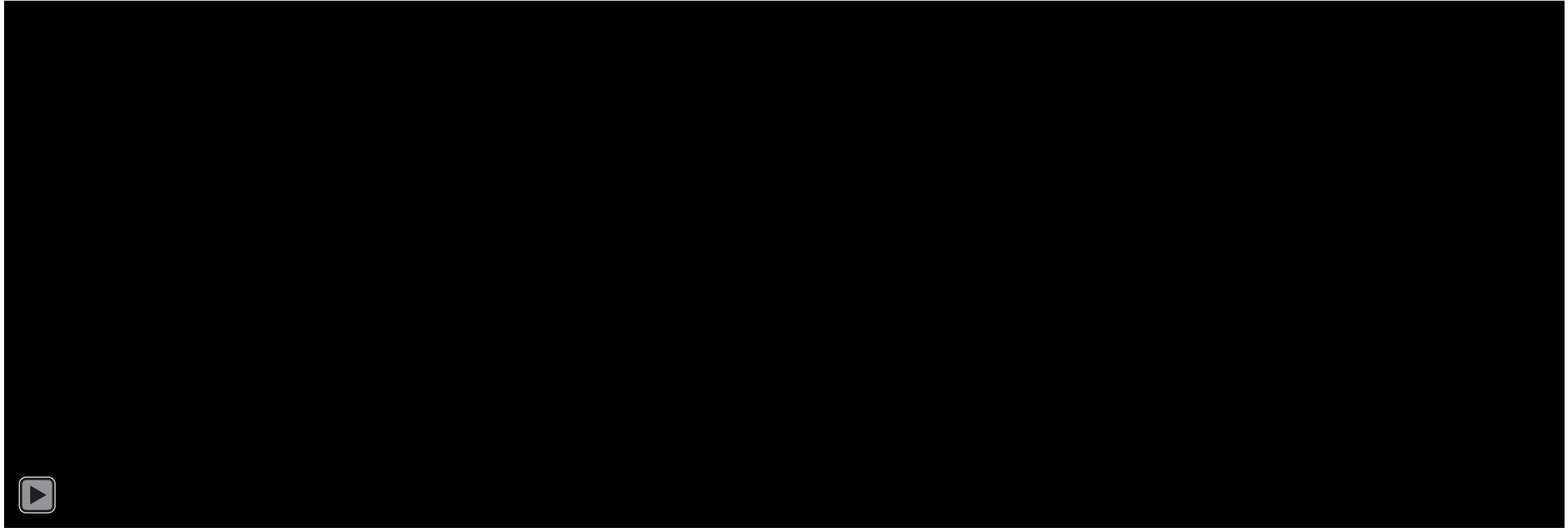
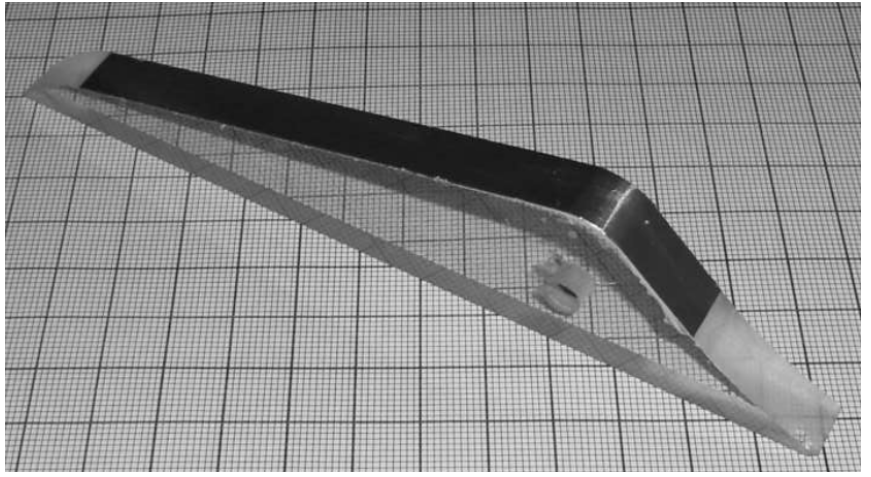


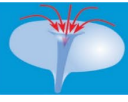
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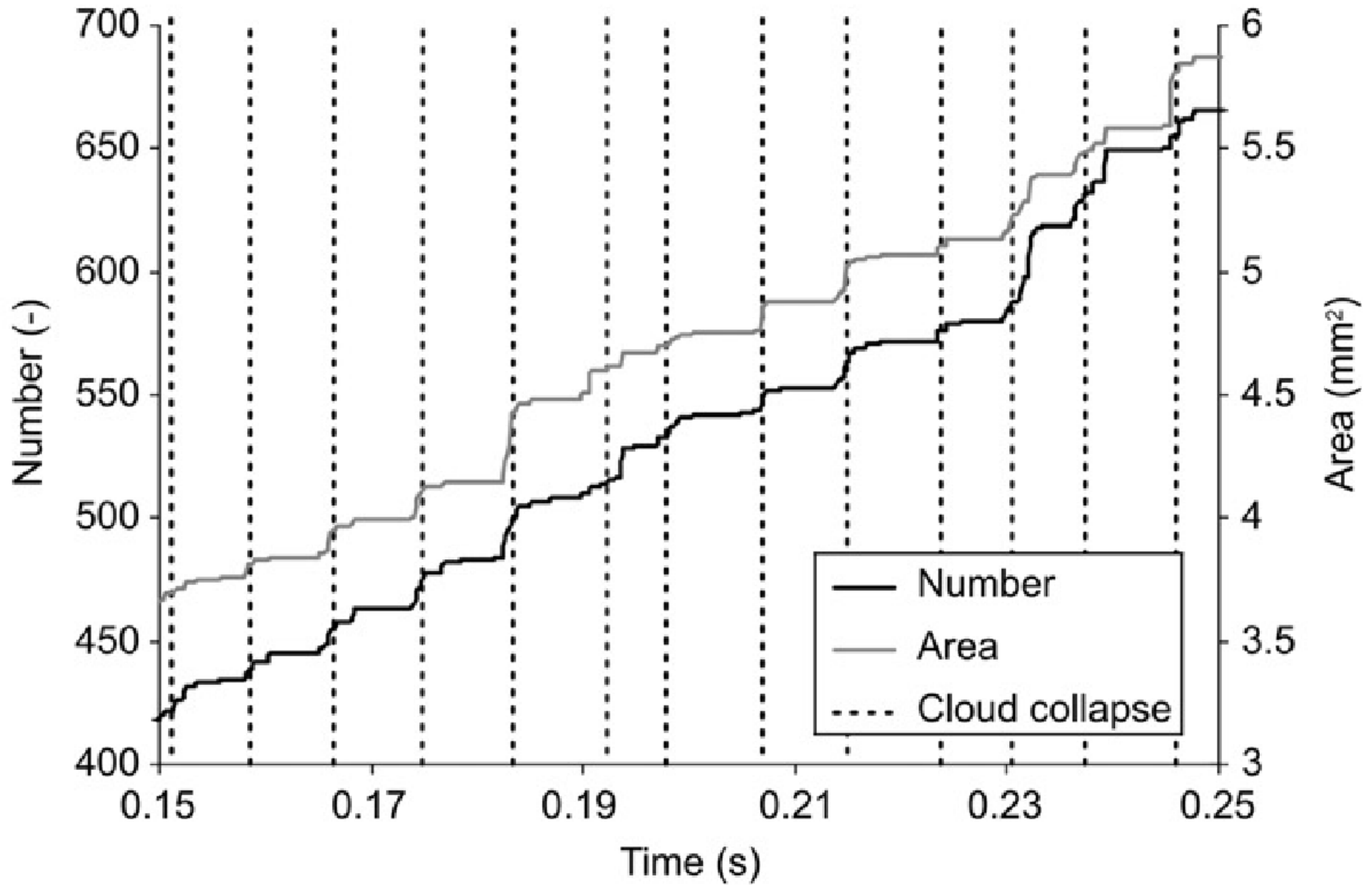


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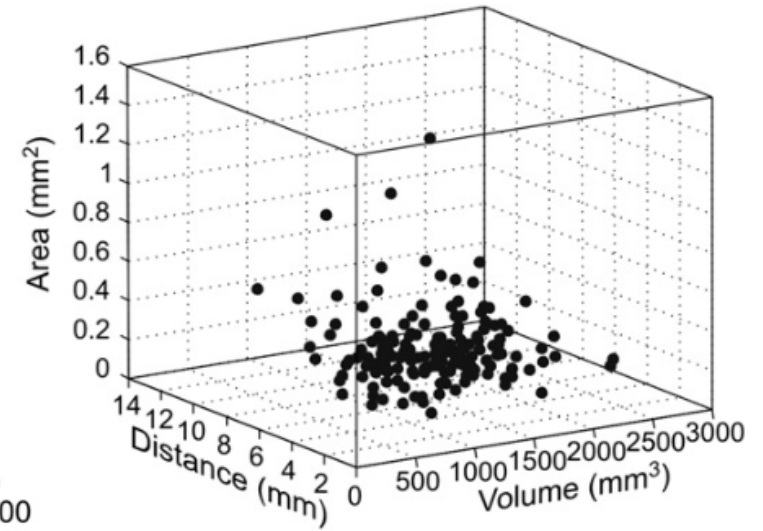
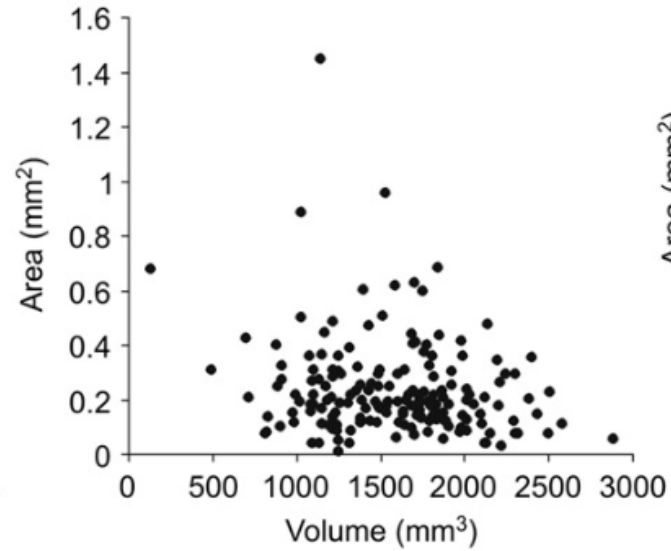
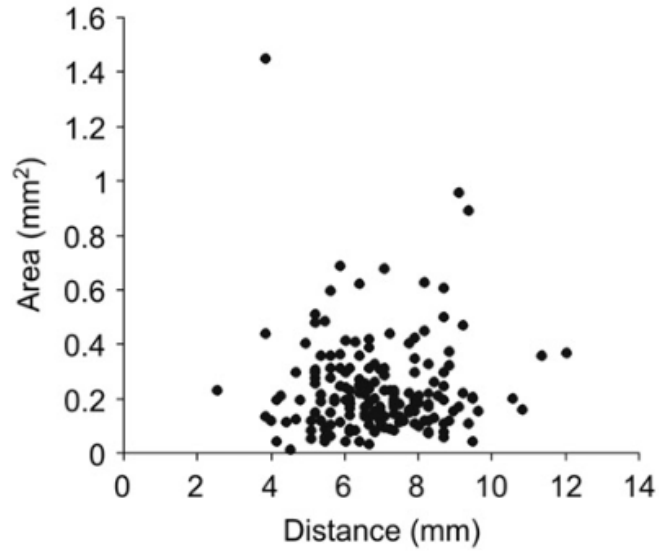


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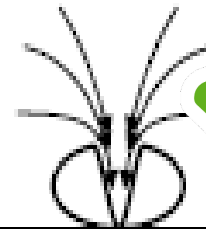
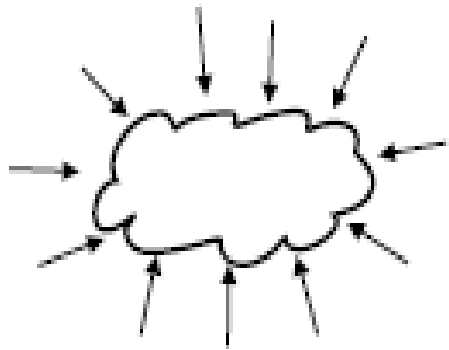
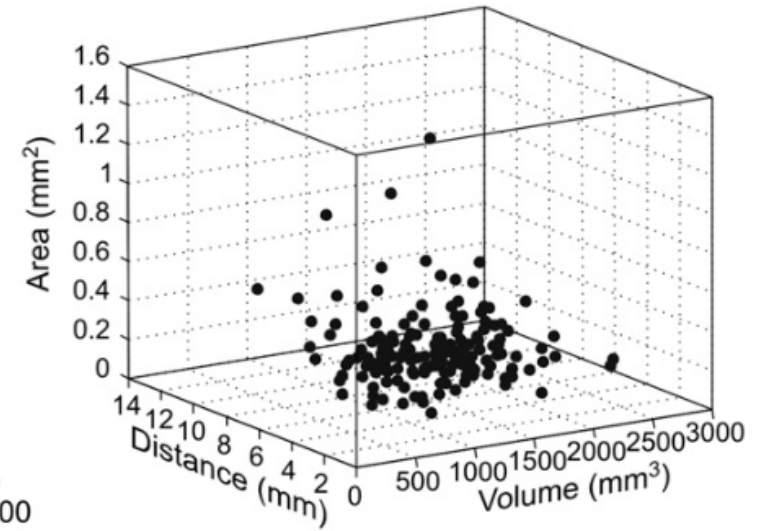
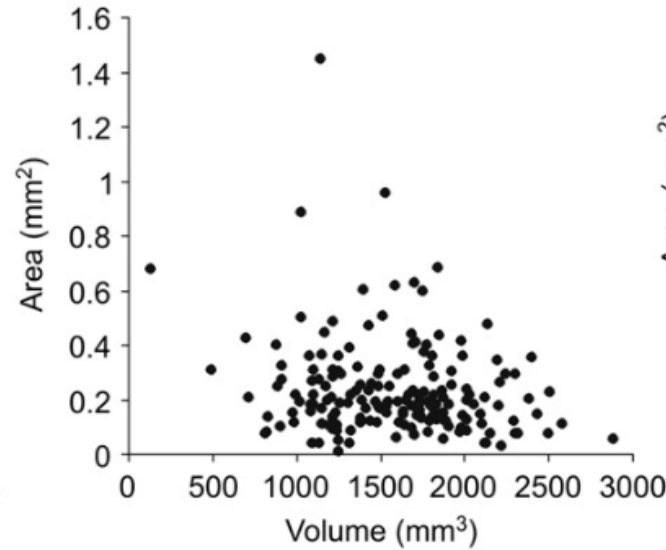
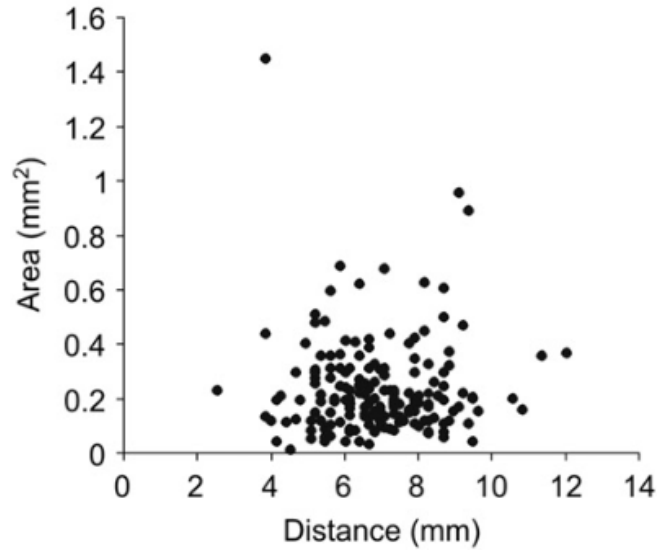


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TEST DOKTORATA (2012-2019)



Kolaps kavitacijskega oblaka

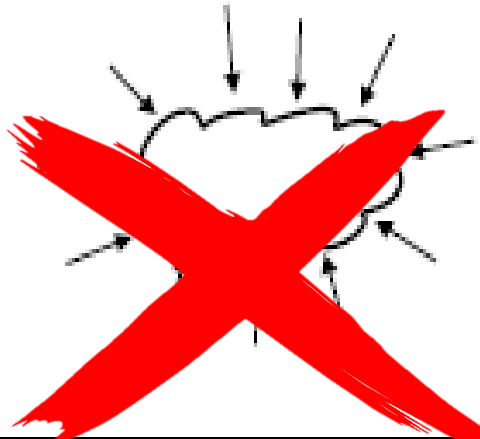
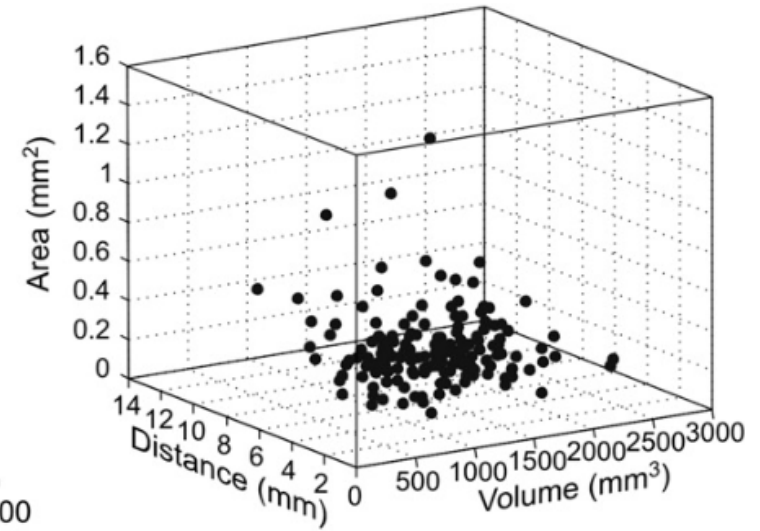
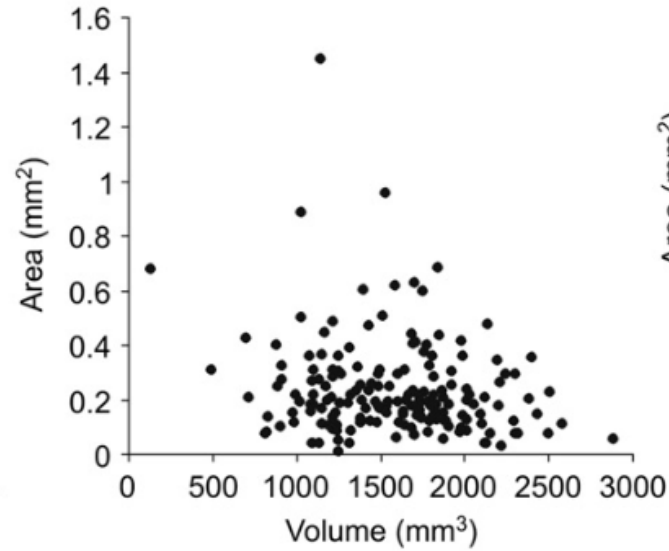
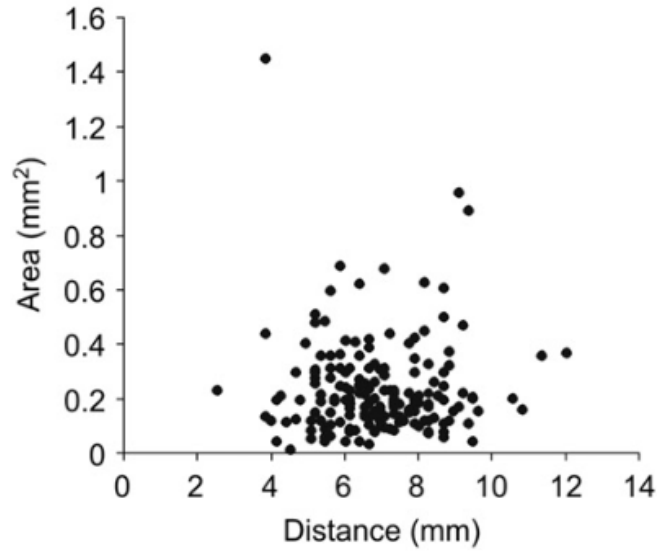
Nastanek tlačnega vala

Nastanek mikrocurka

Nastanek luknjice



TEST DOKTORATA (2012-2019)



Kolaps kavitacijskega oblaka



Nastanek tlačnega vala



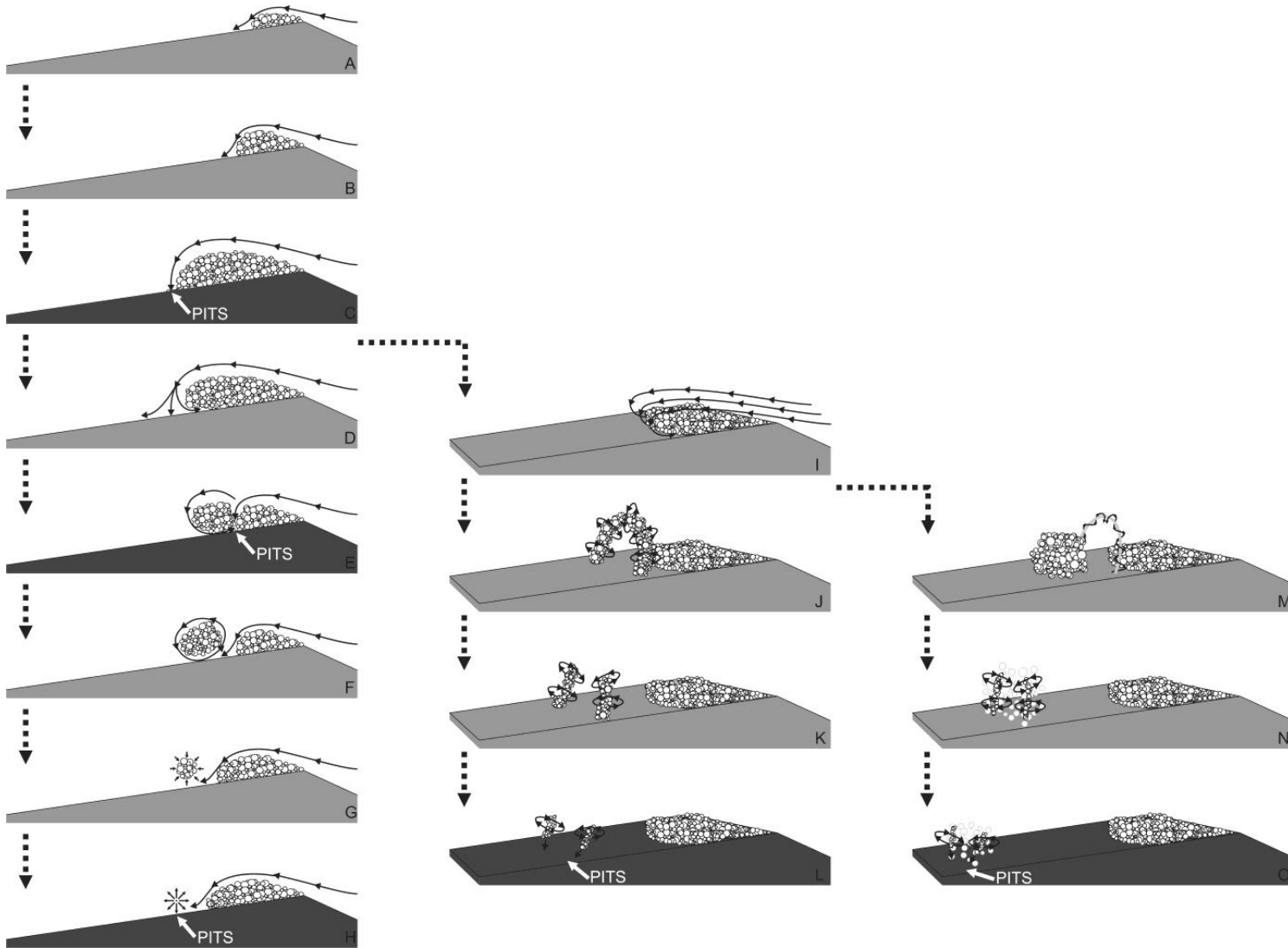
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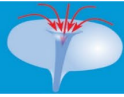


Nastanek luknjice



TEST DOKTORATA (2012-2019)





TEST DOKTORATA (2012-2019)

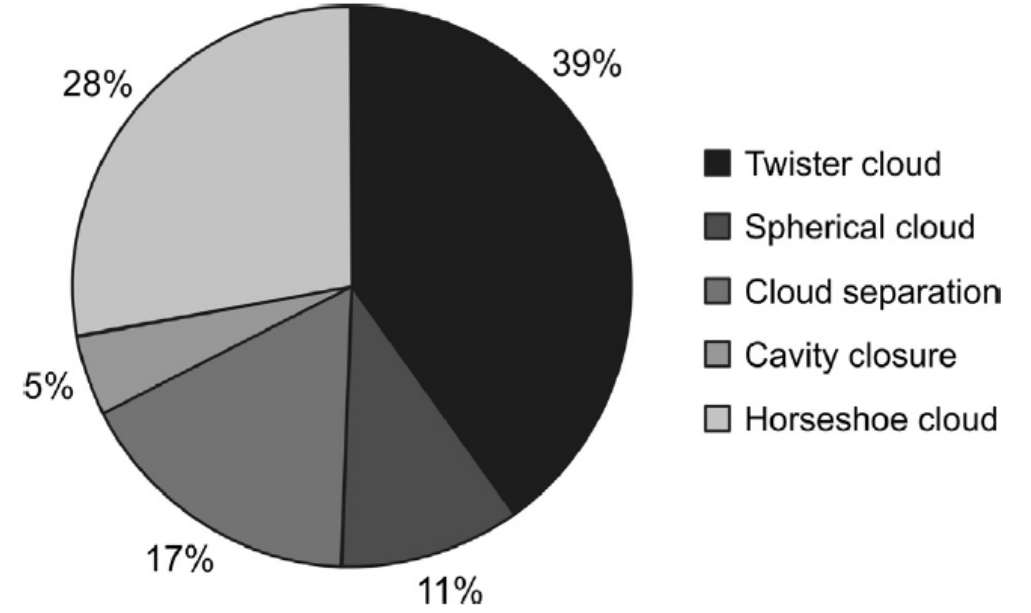
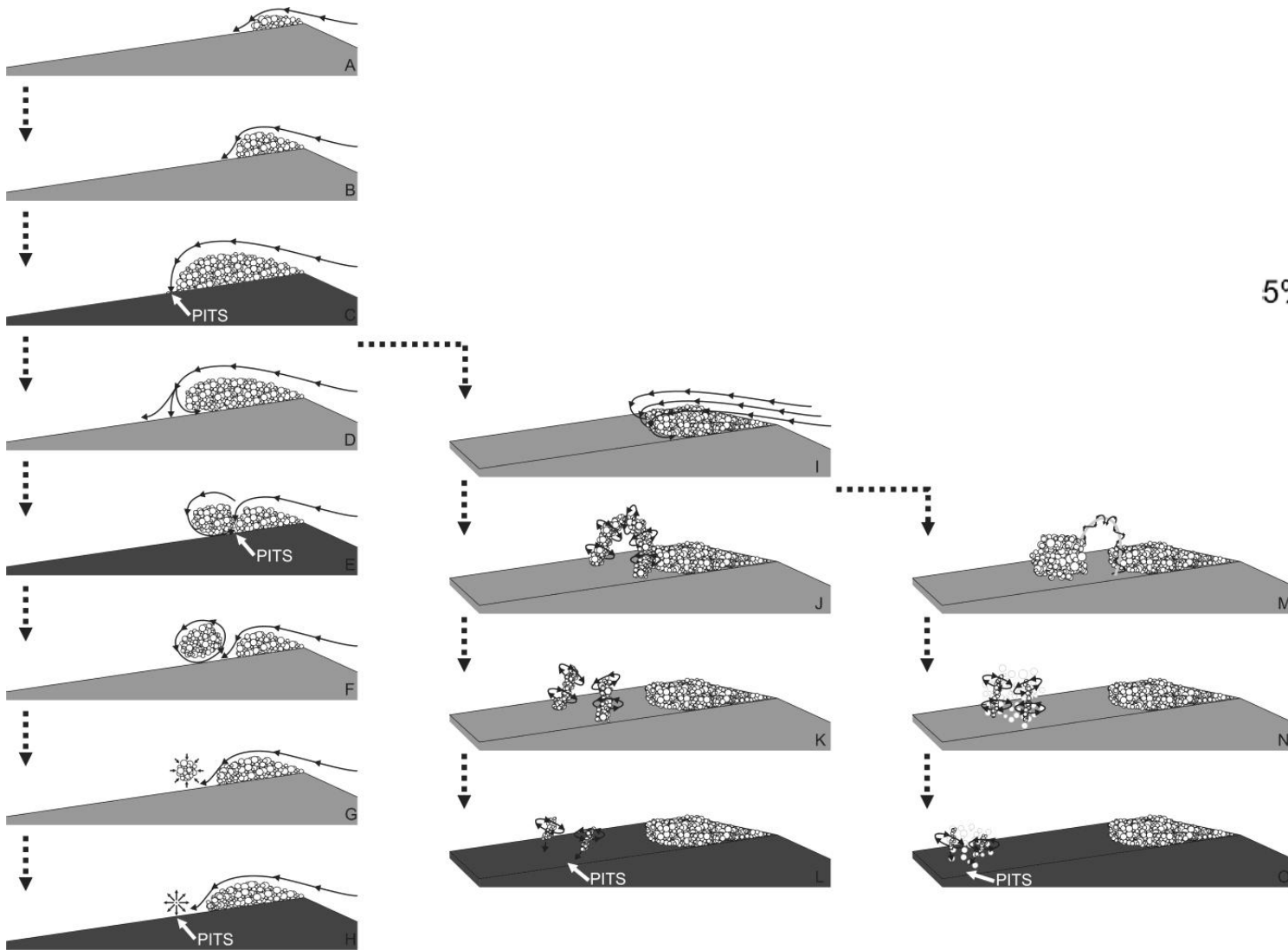
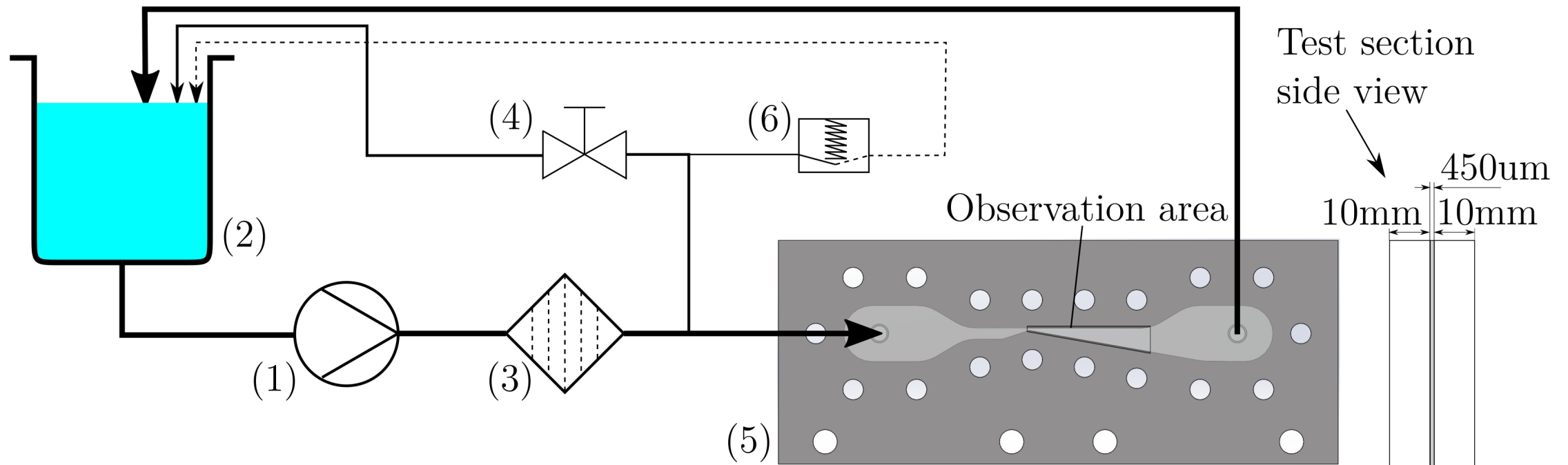


Fig. 13. The importance of individual phenomenon.

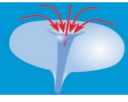


Geometry:

- 18°/8° Venturi channel
- Height: 75... 1000 μm
- Width: 45... 750 μm

Conditions:

- $p_{\text{in}} = 2... 12 \text{ bar}$
- $v_{\text{th}} = 20... 70 \text{ m/s}$

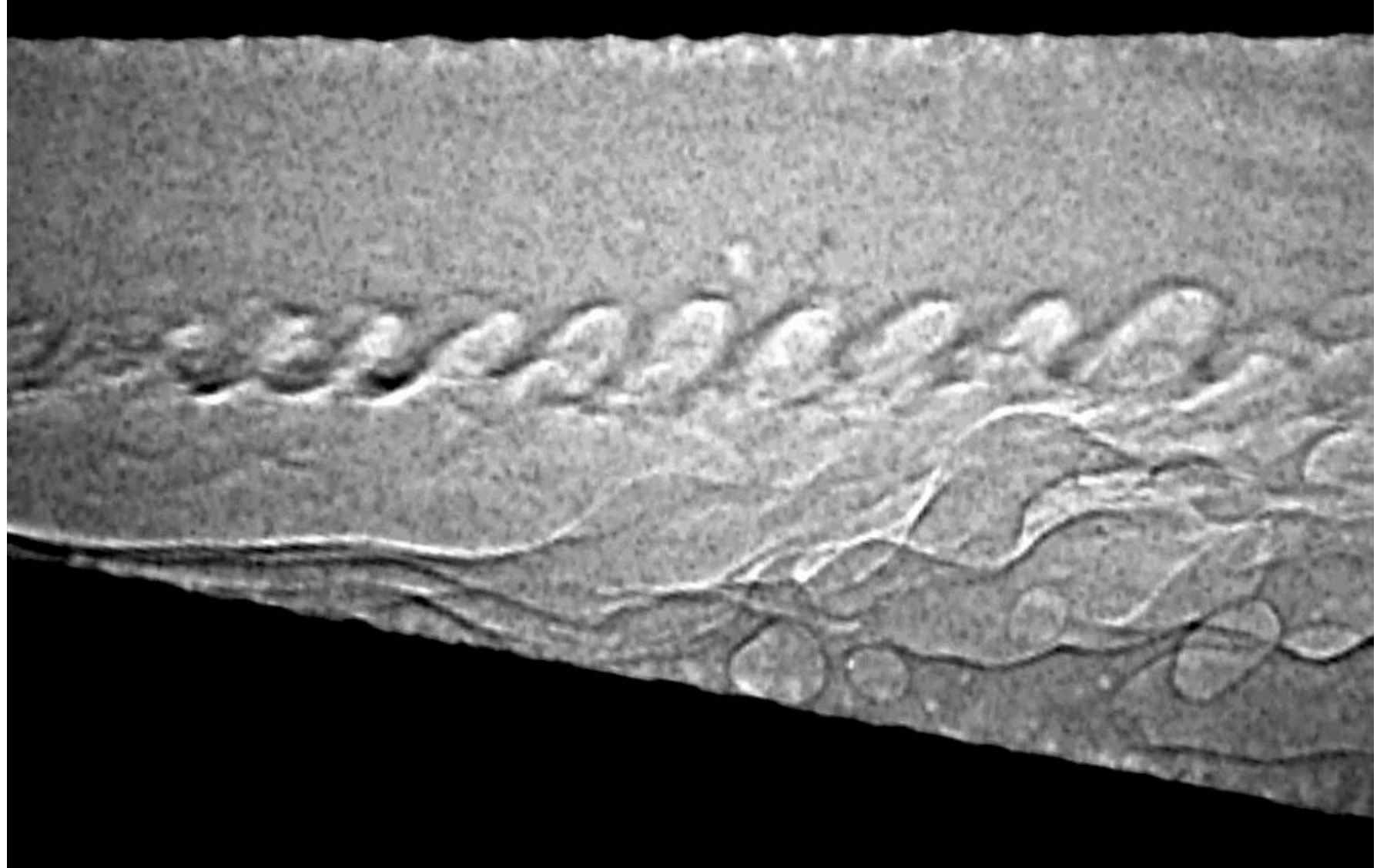


ERC (2018 –)

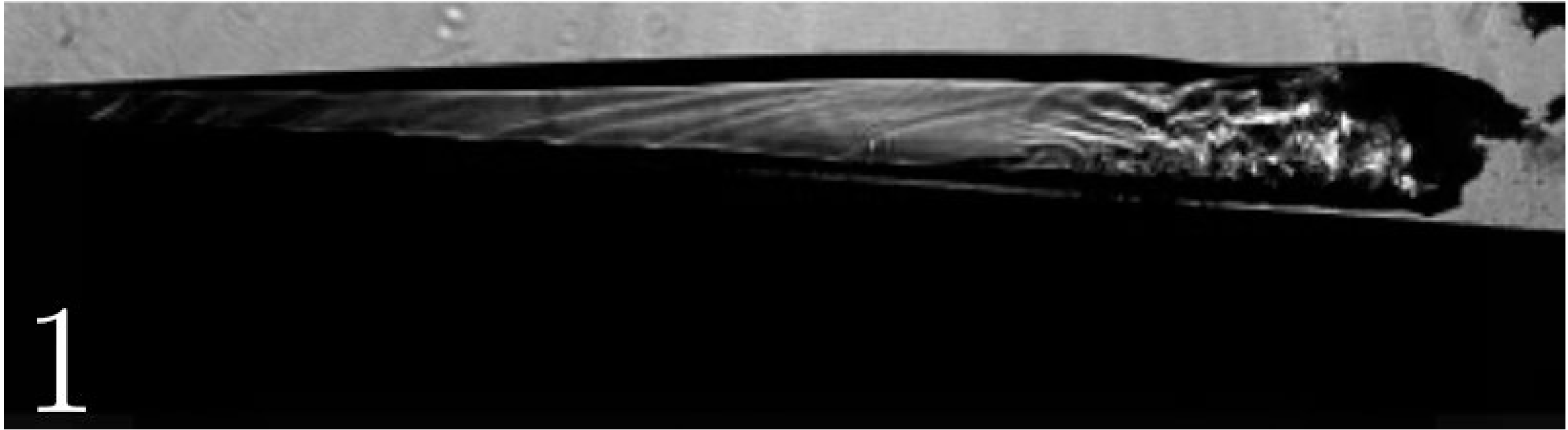
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NATIONAL LABORATORY

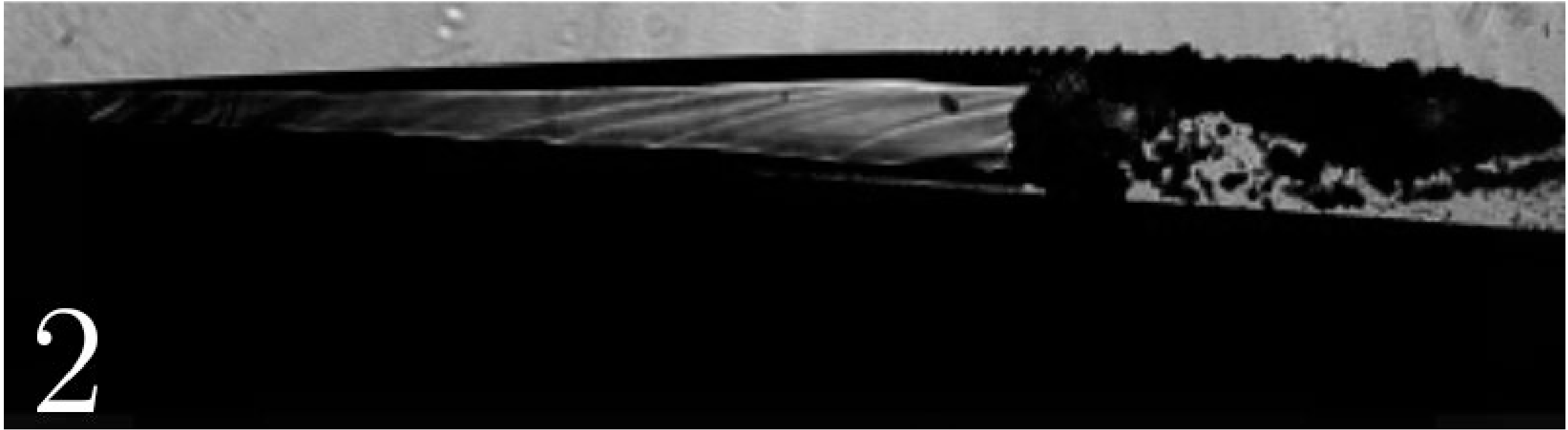


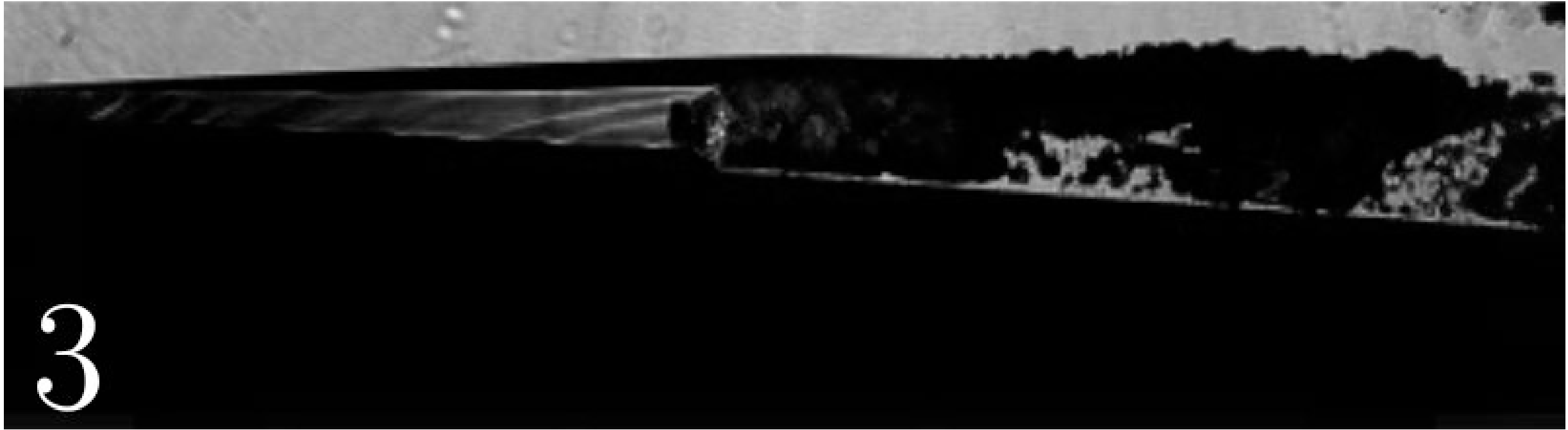
Argonne
NATIONAL LABORATORY

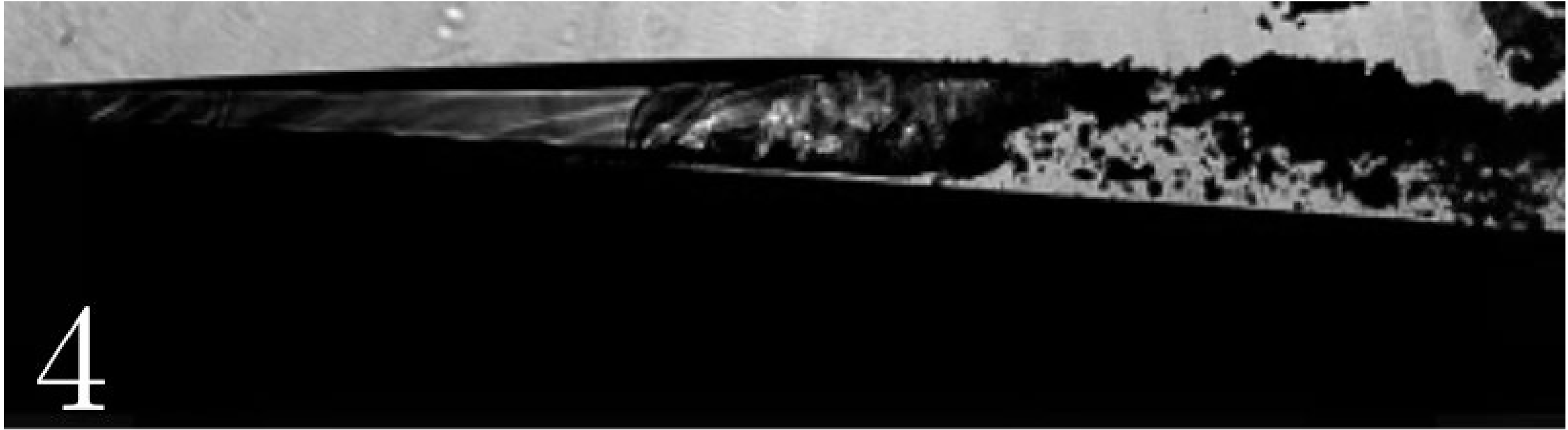


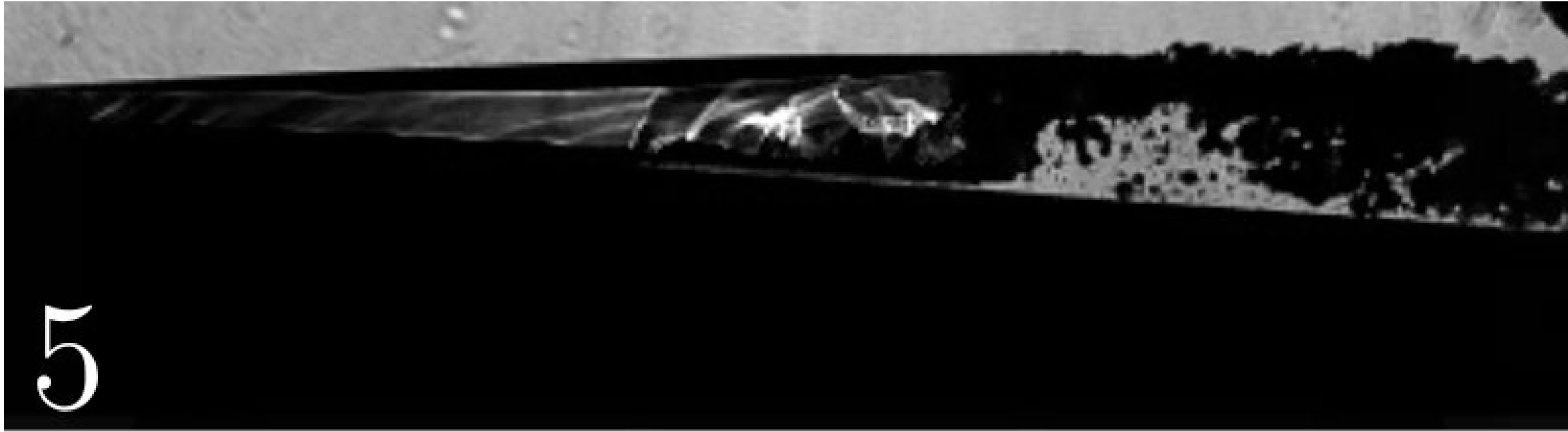


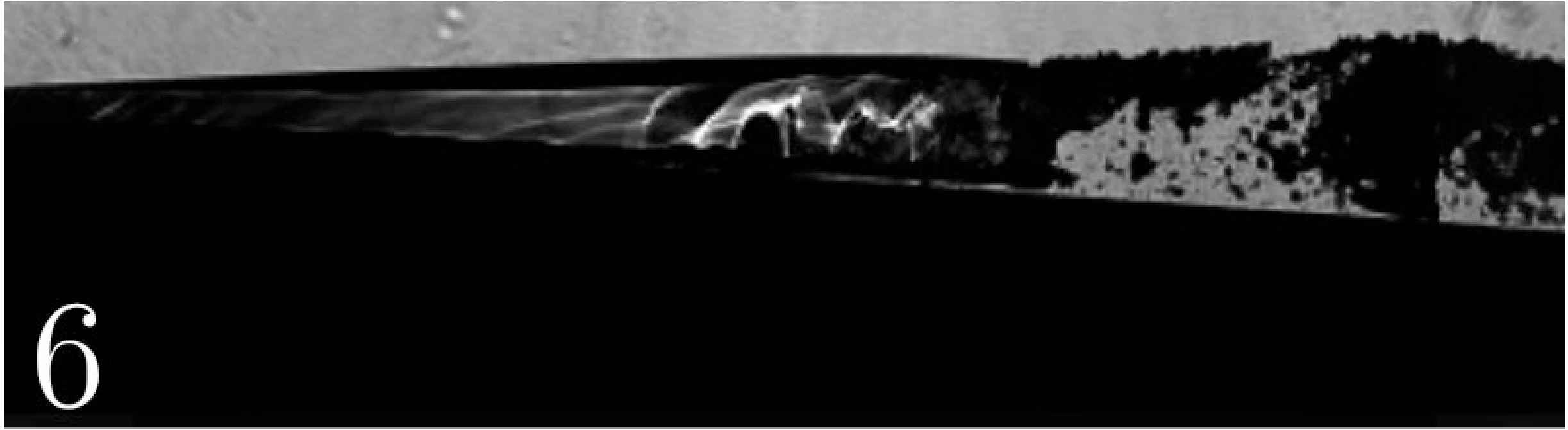


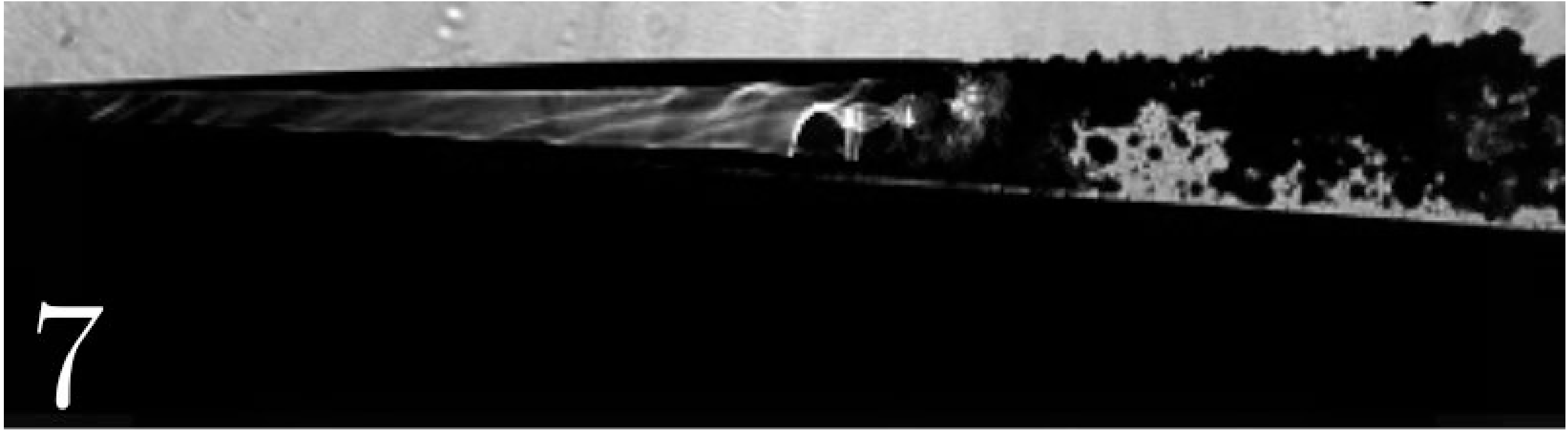




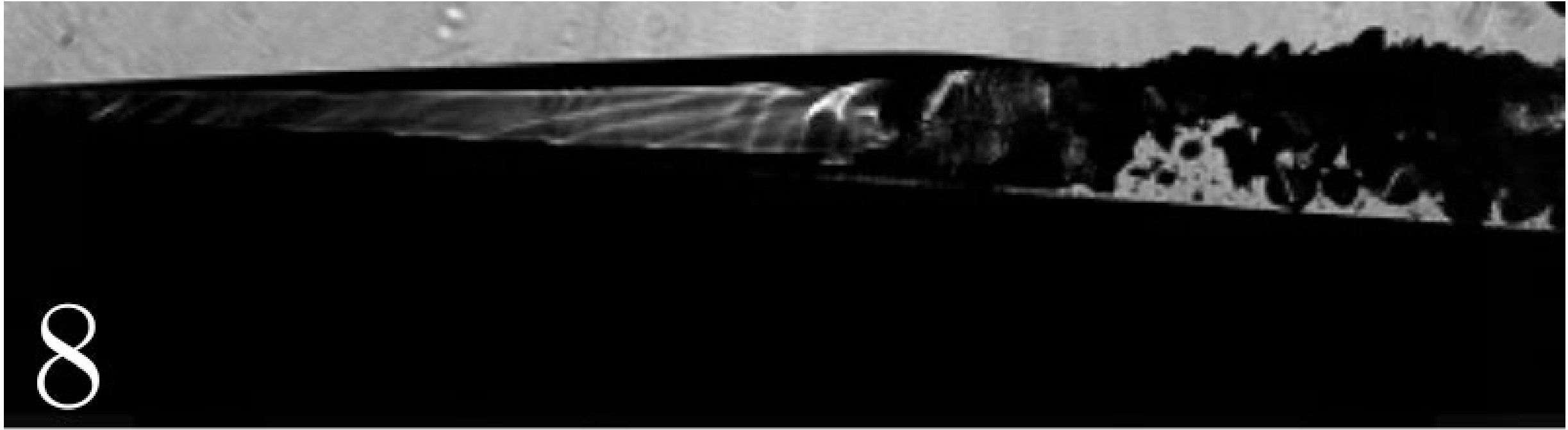




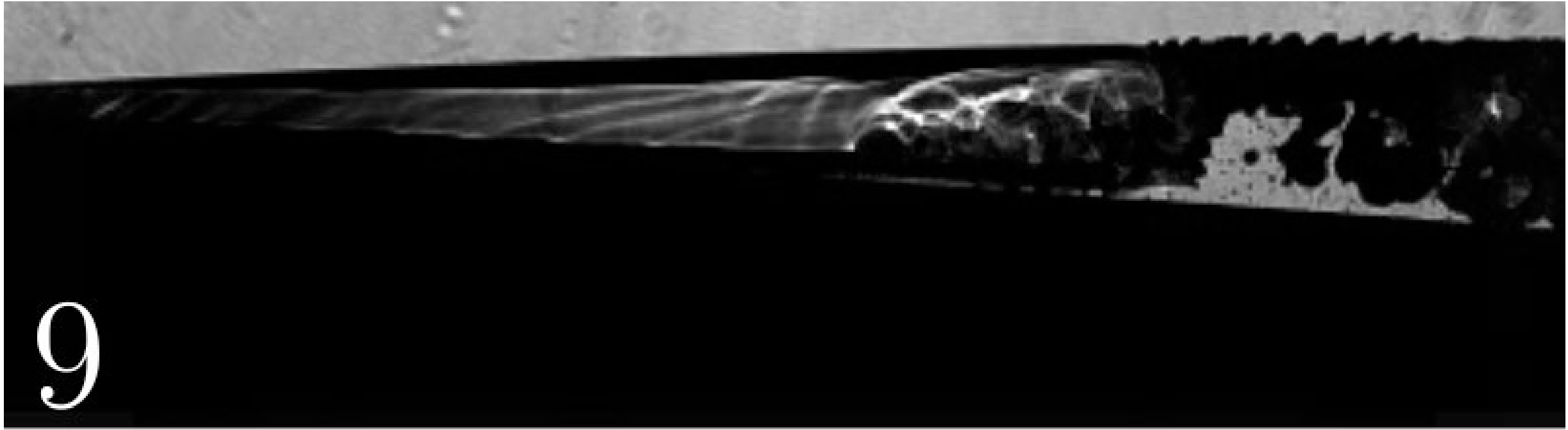


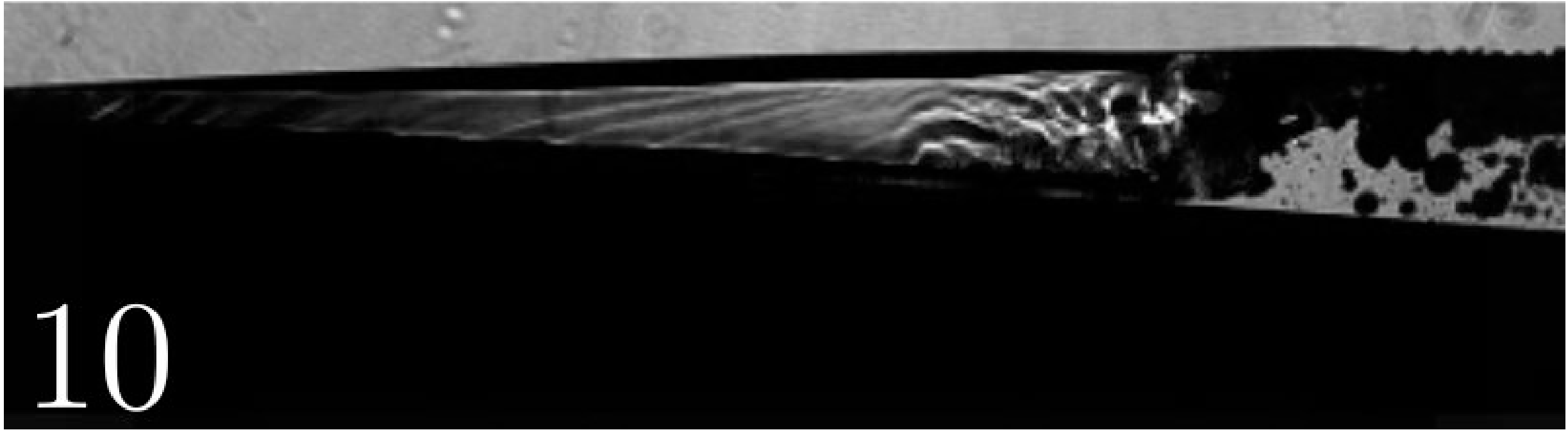


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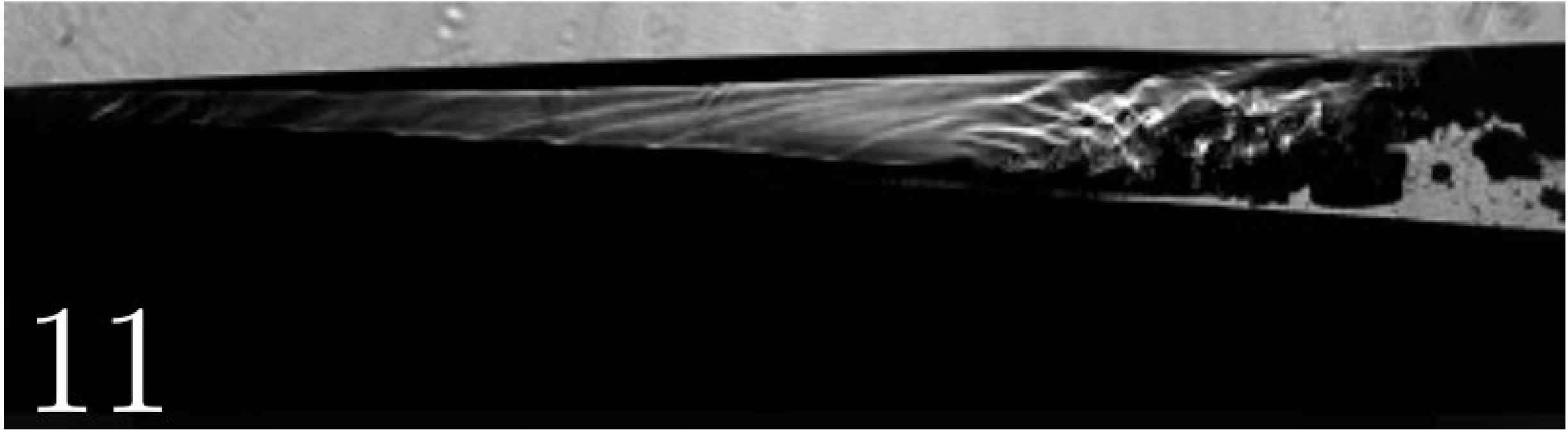


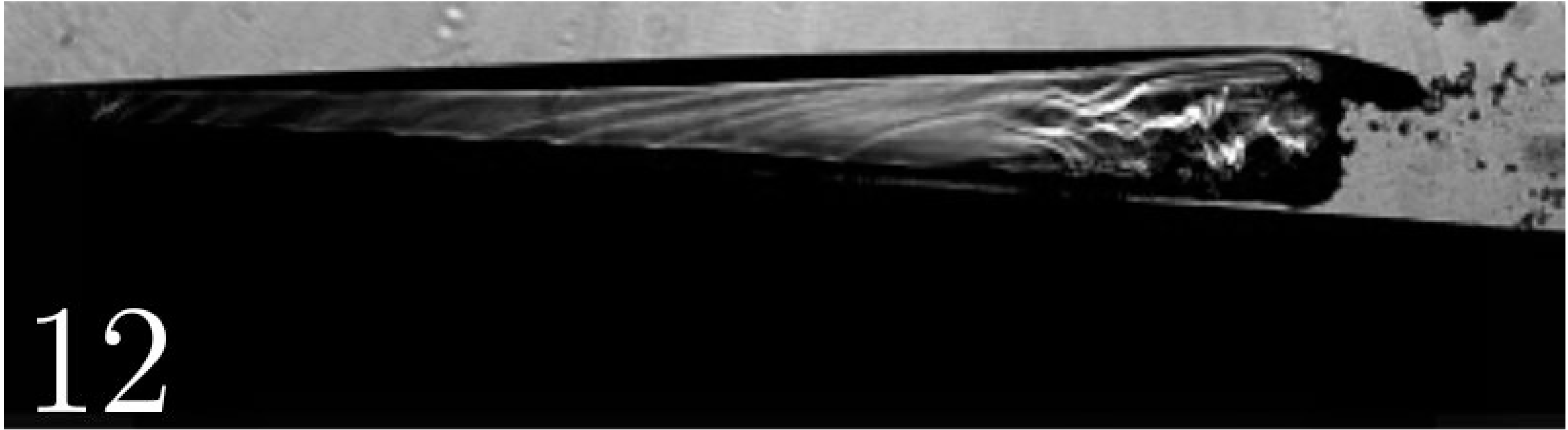
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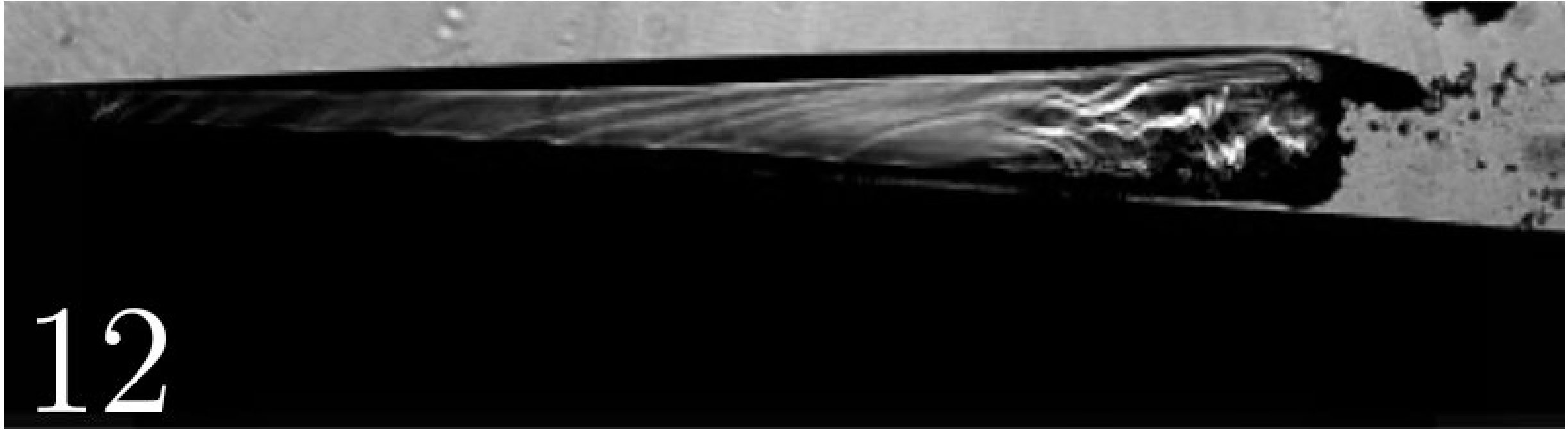




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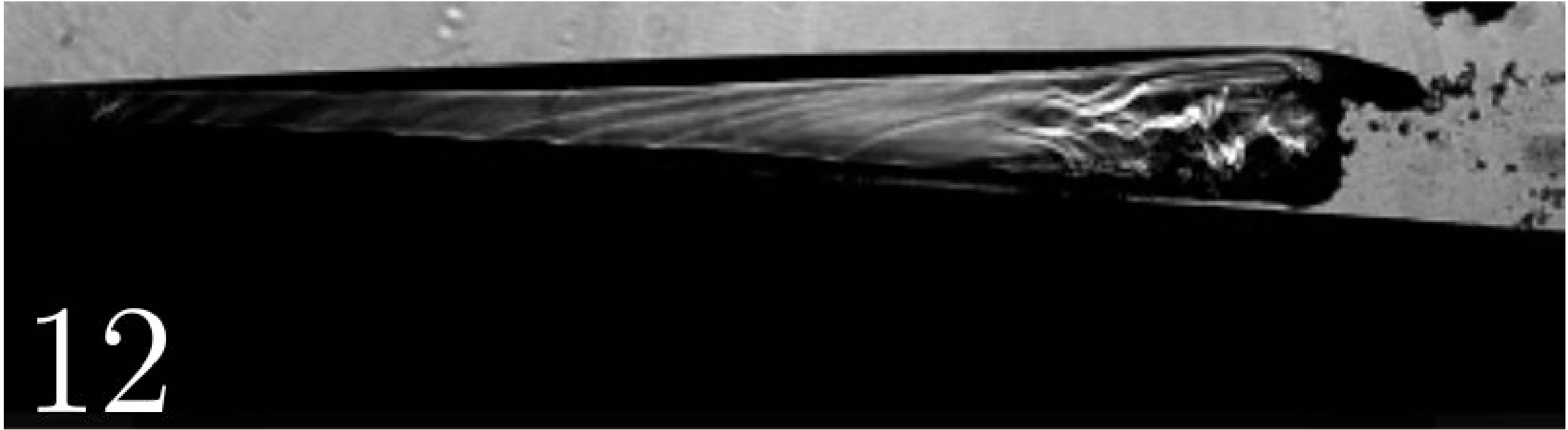




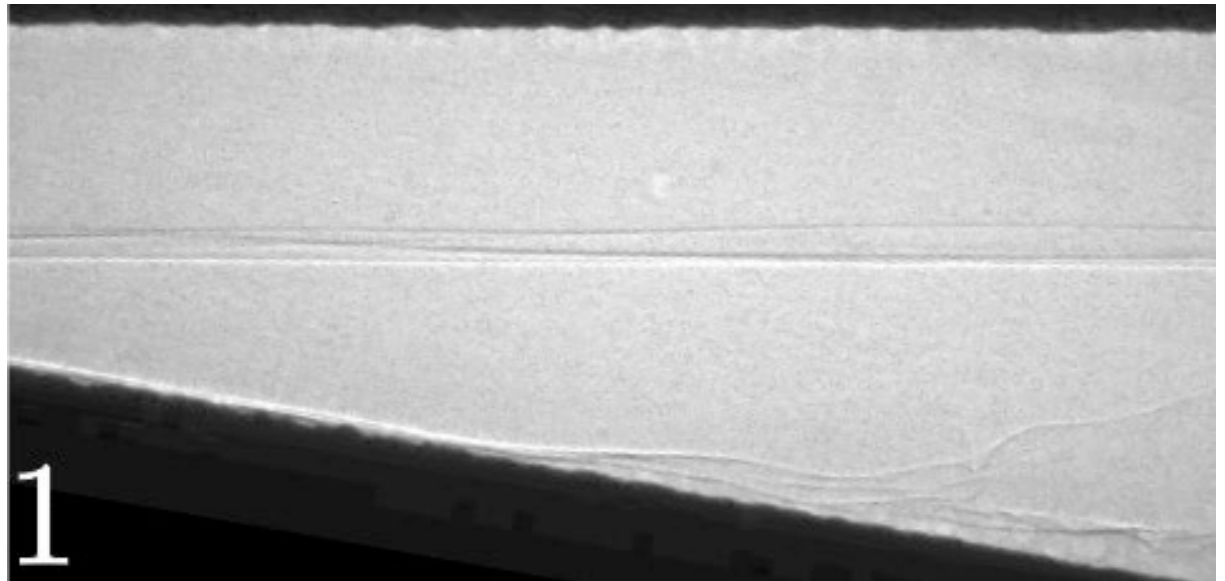
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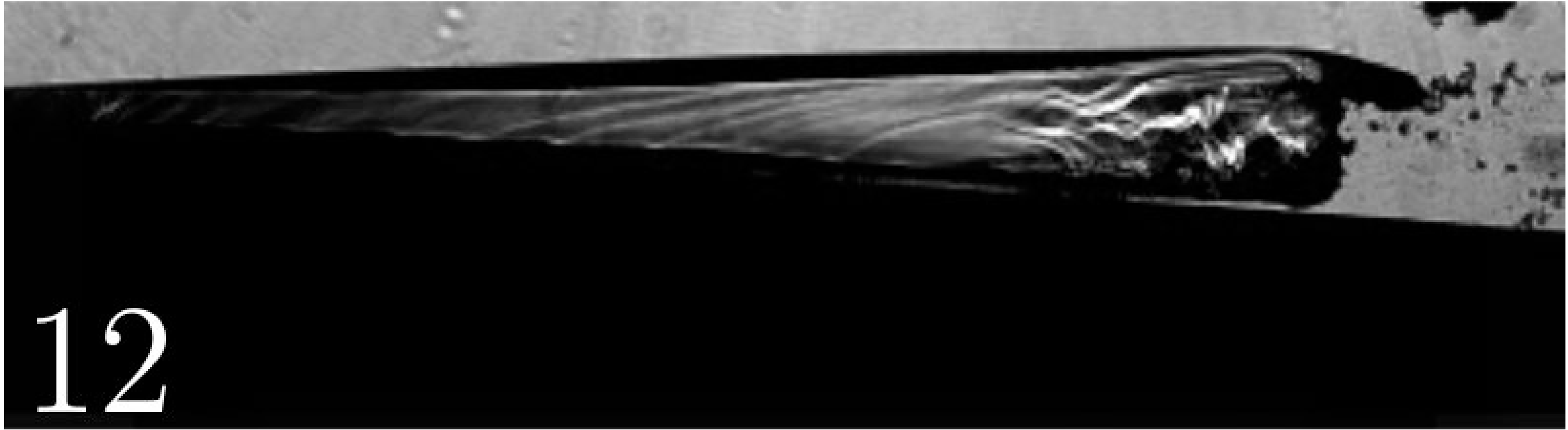
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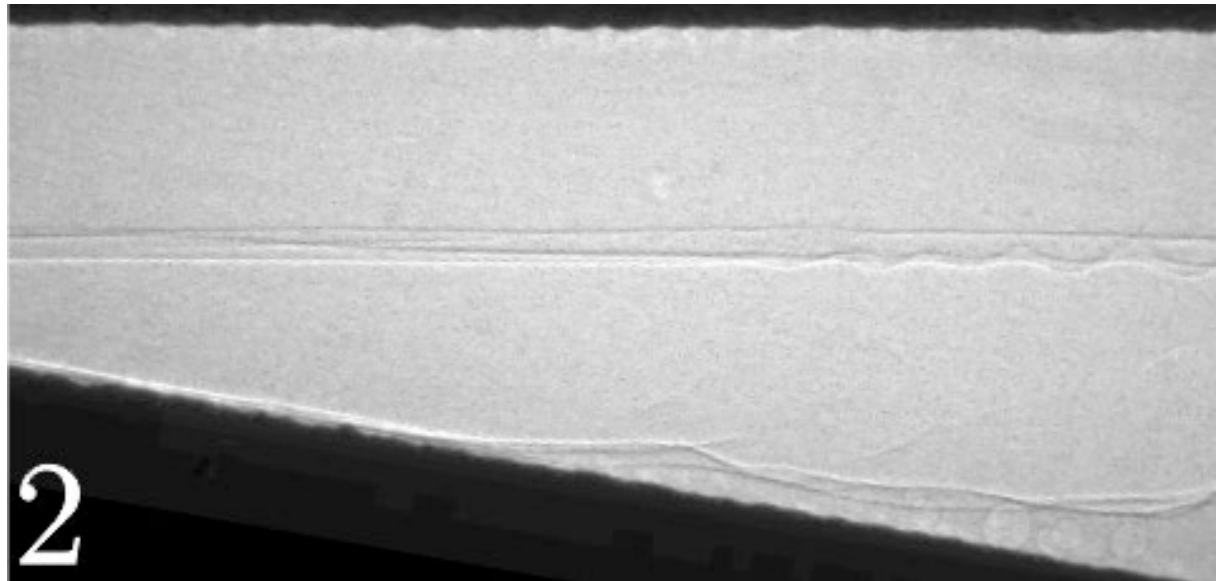


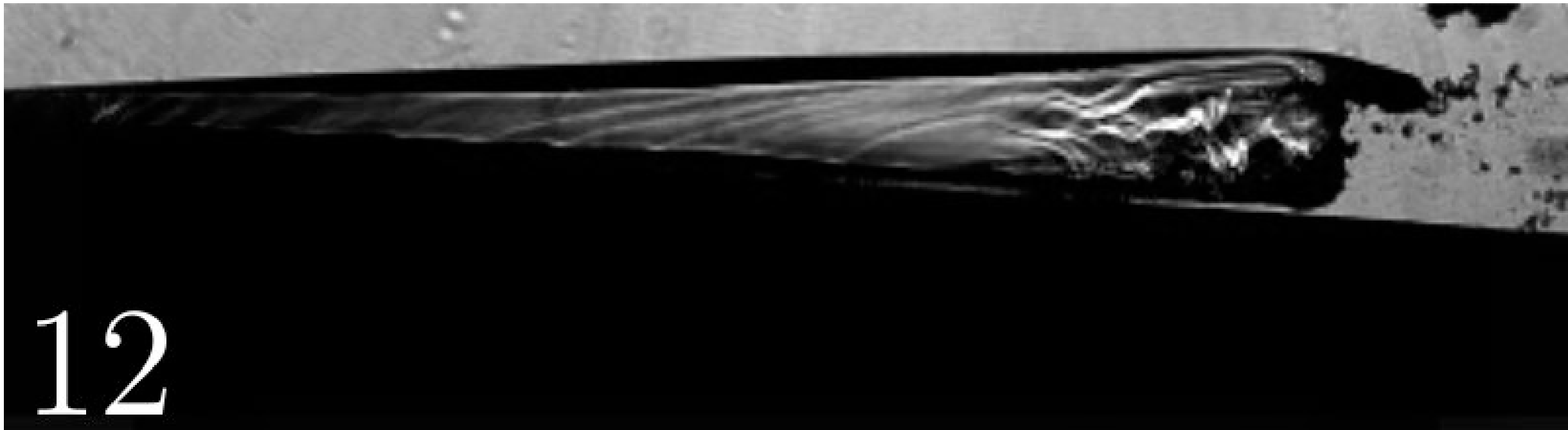
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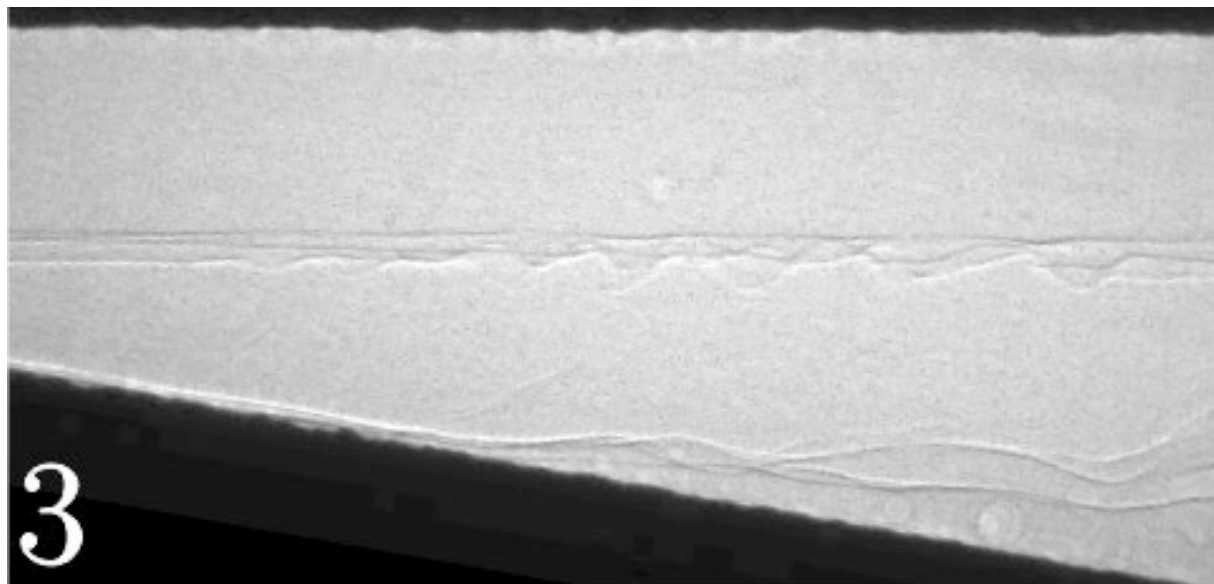


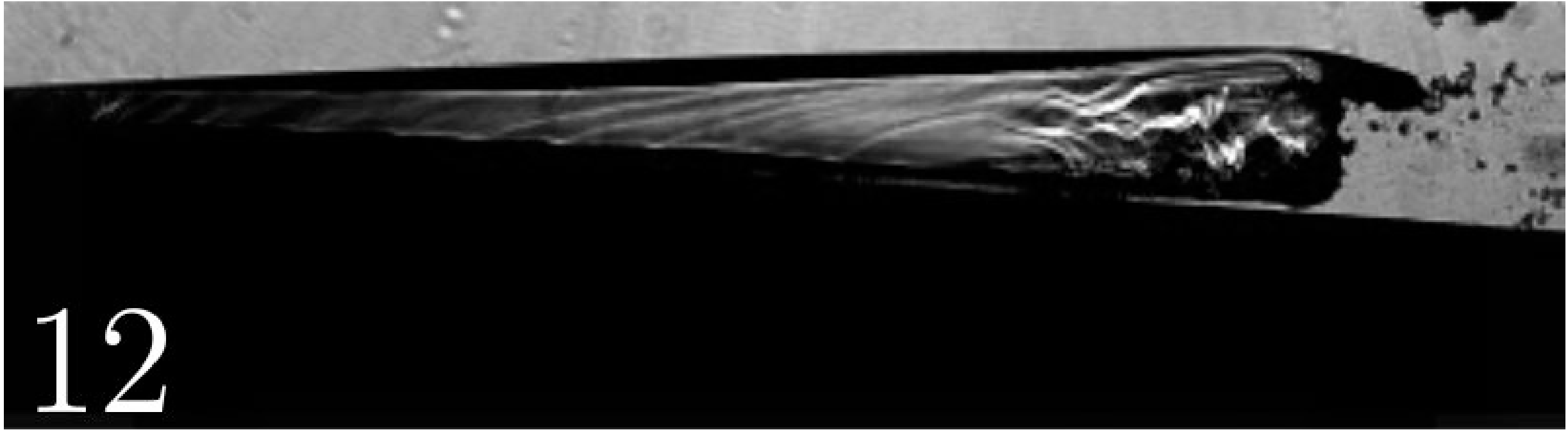
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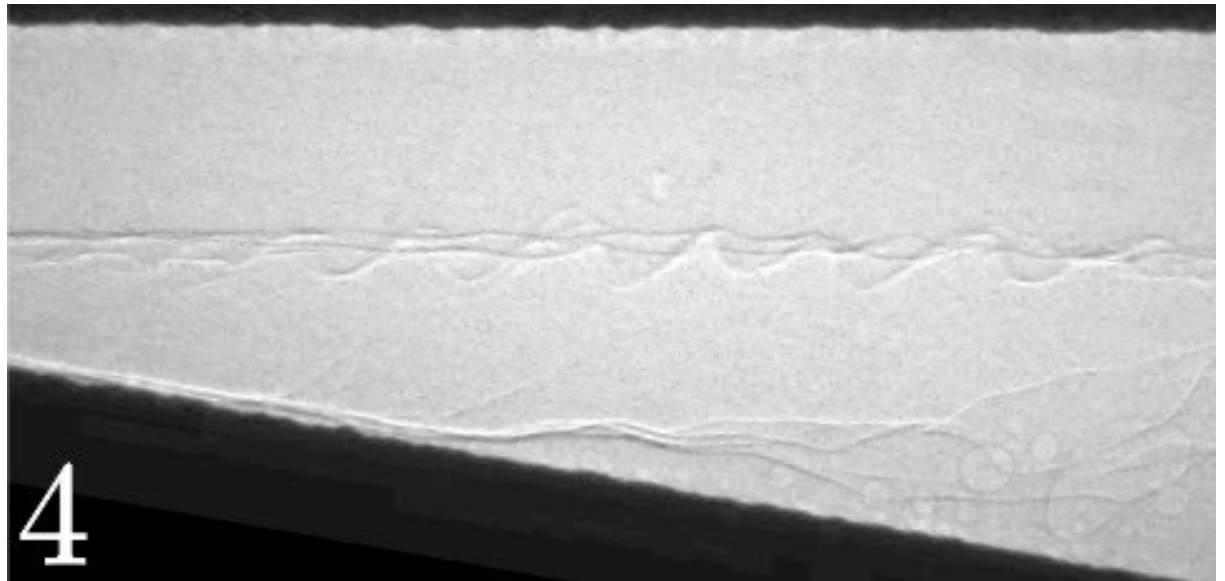


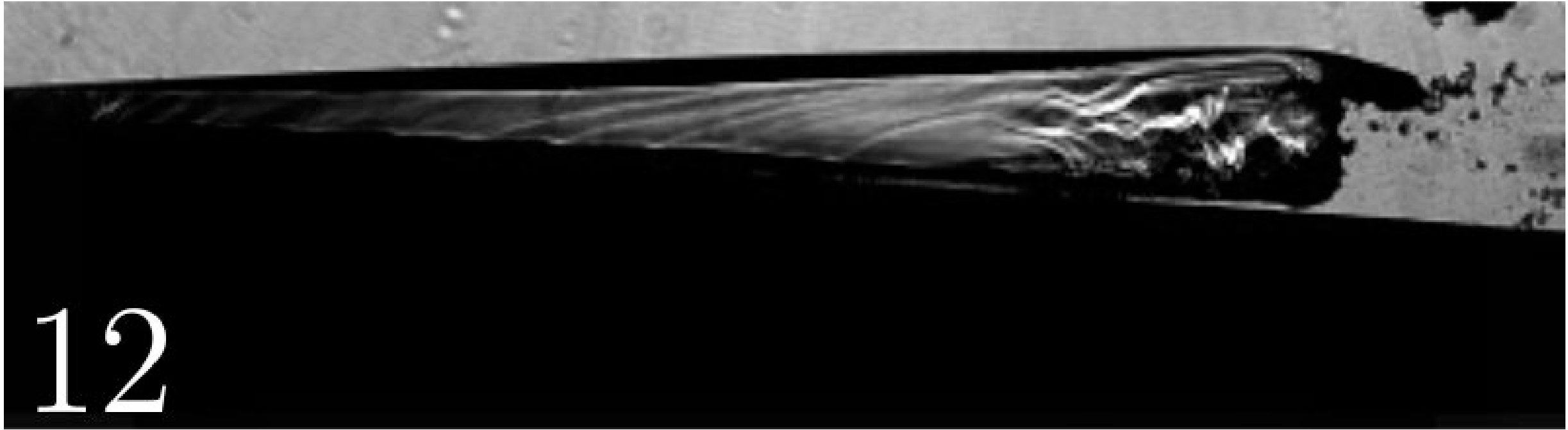
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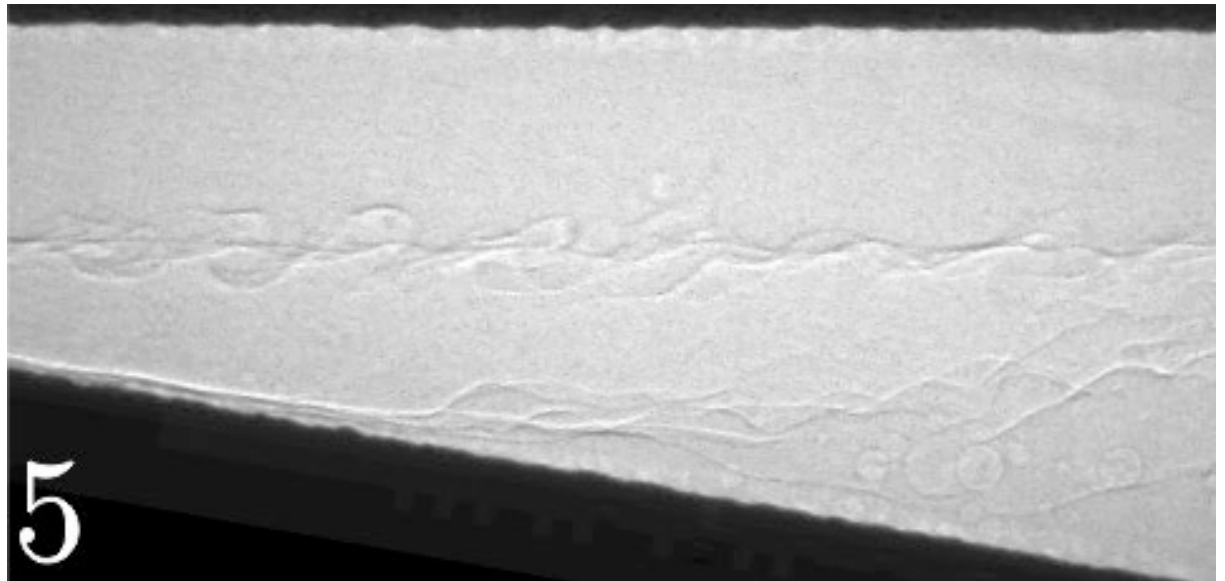


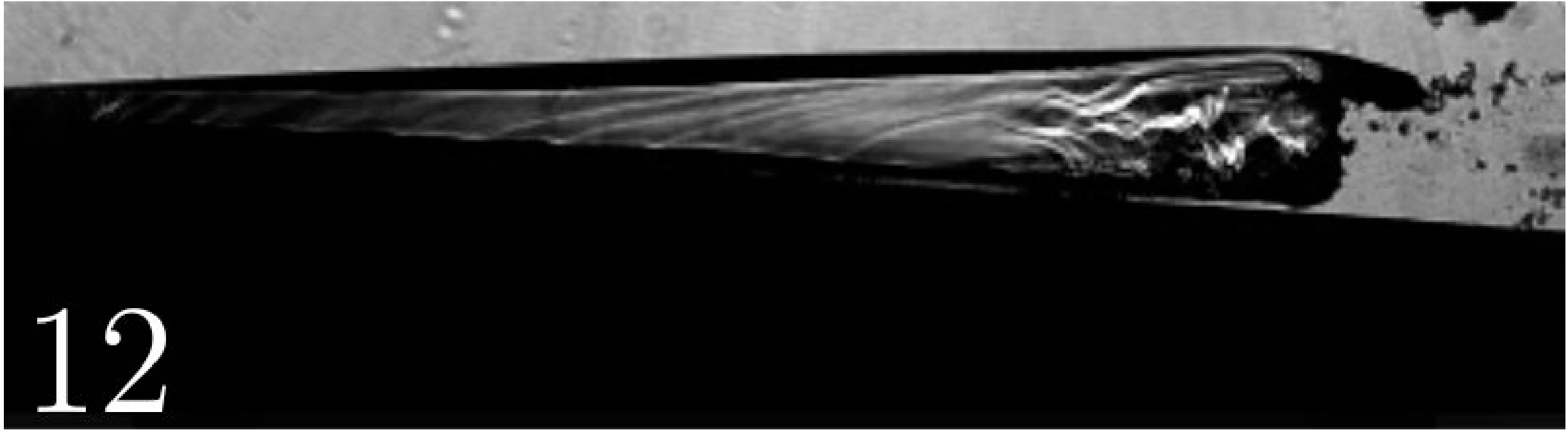
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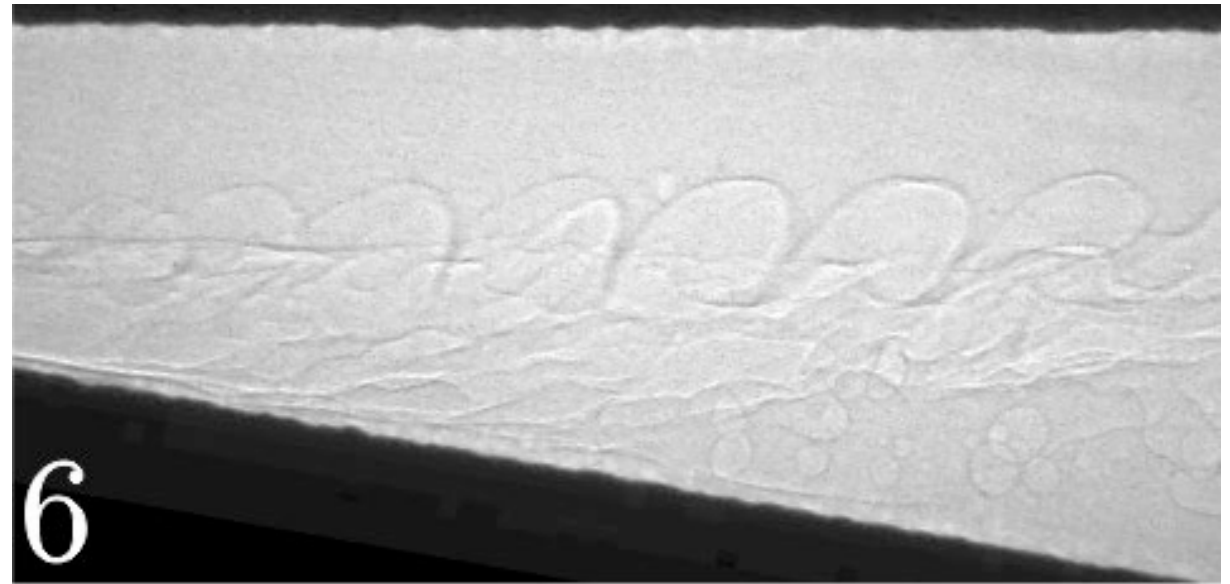


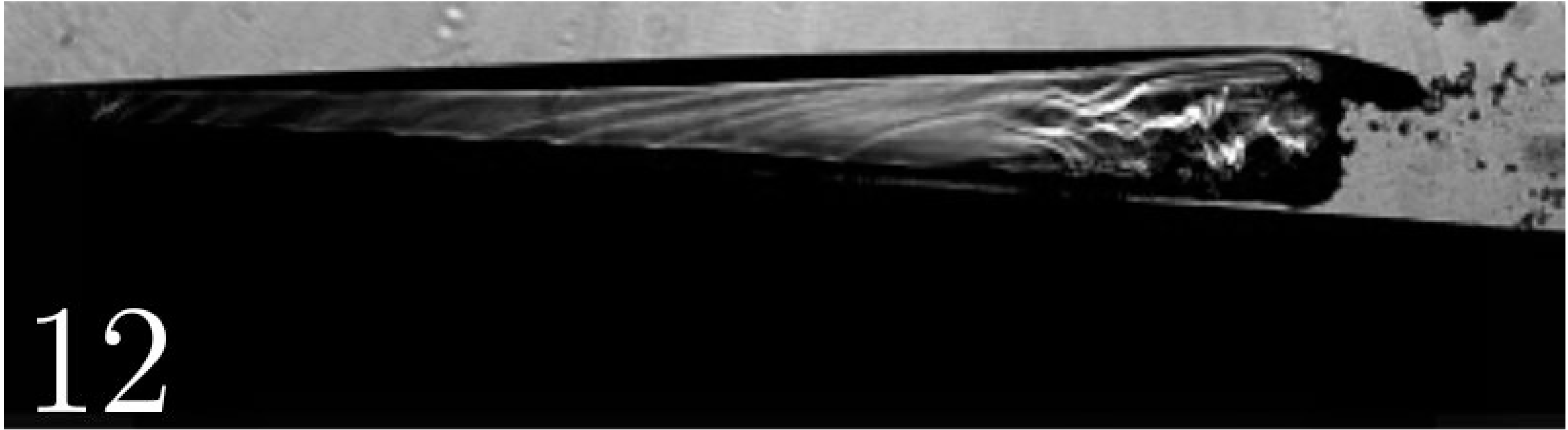
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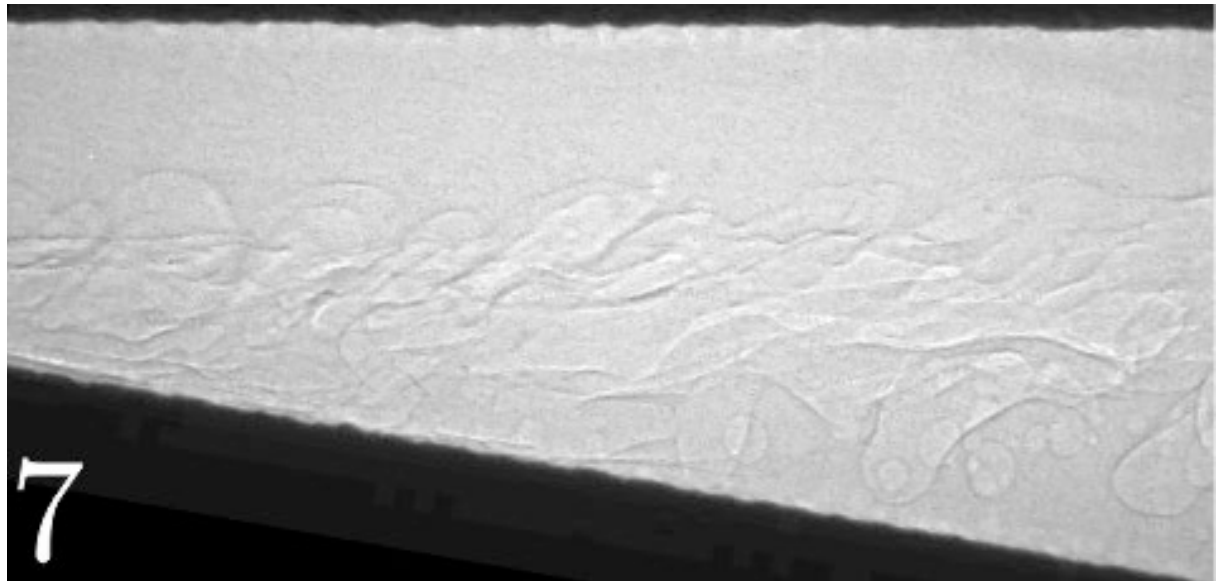


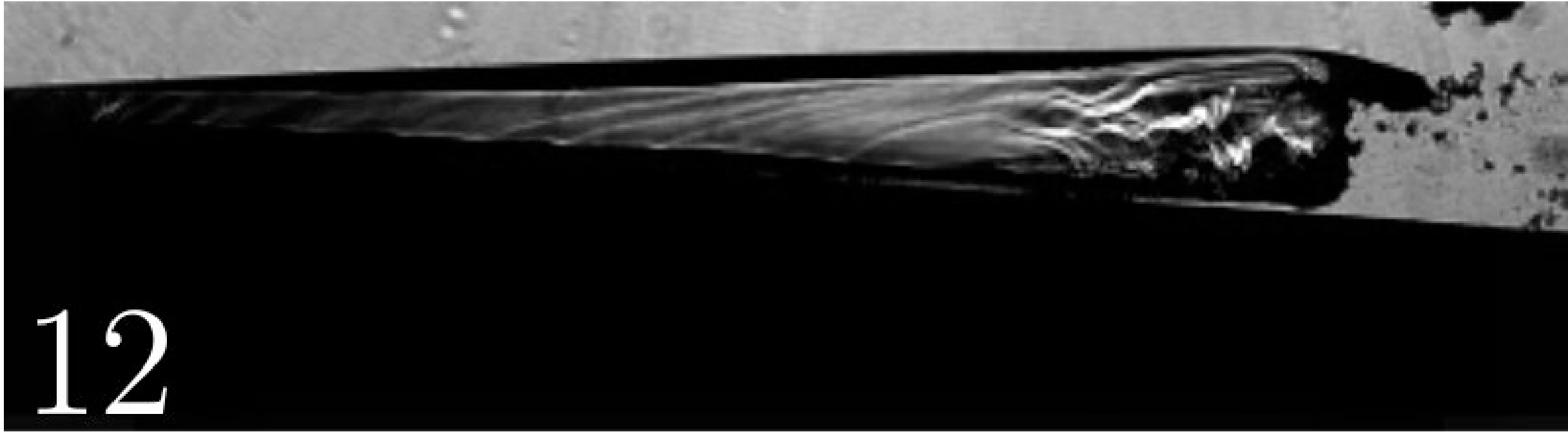
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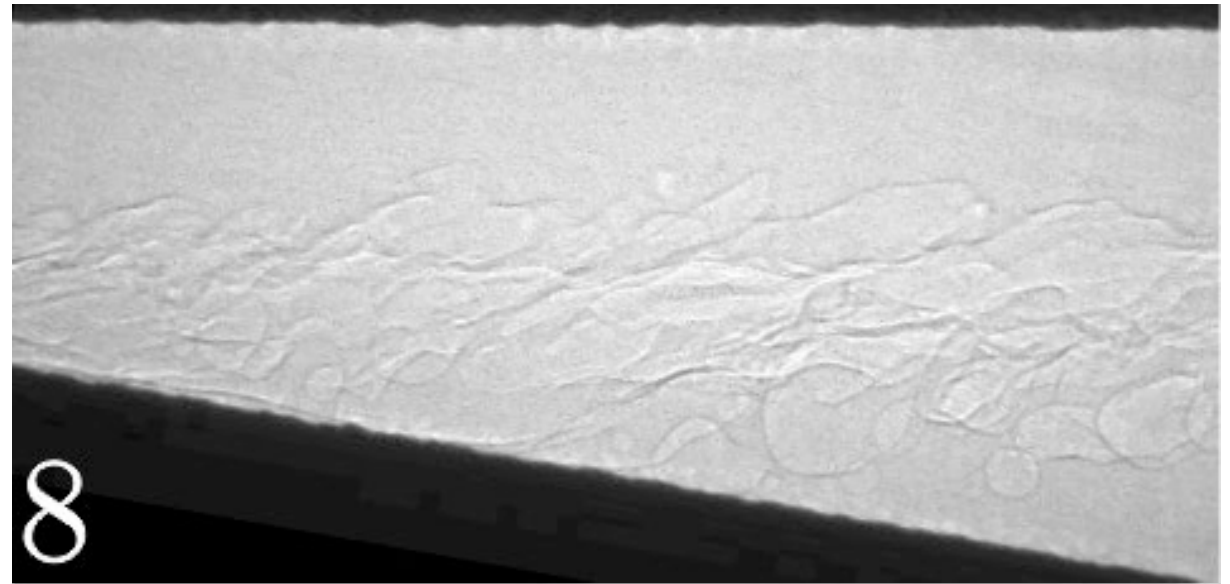


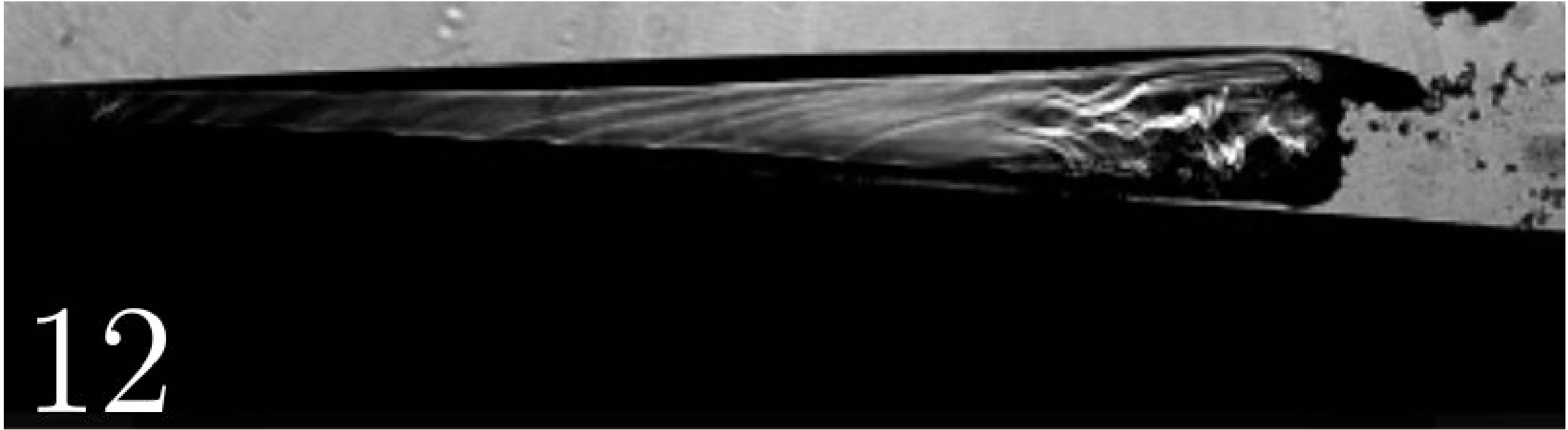
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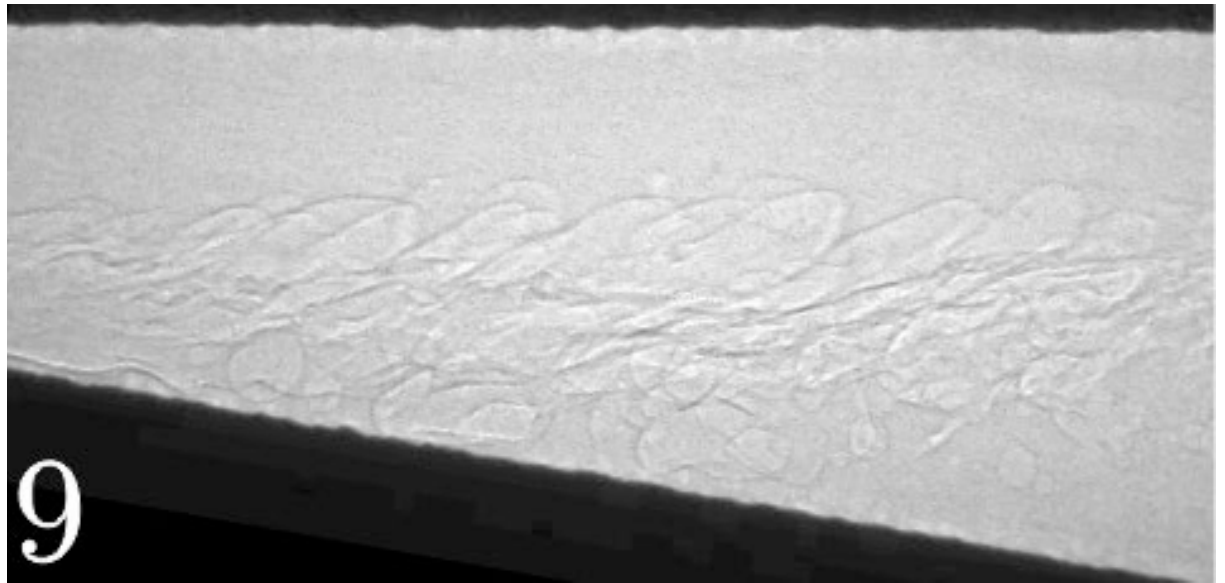


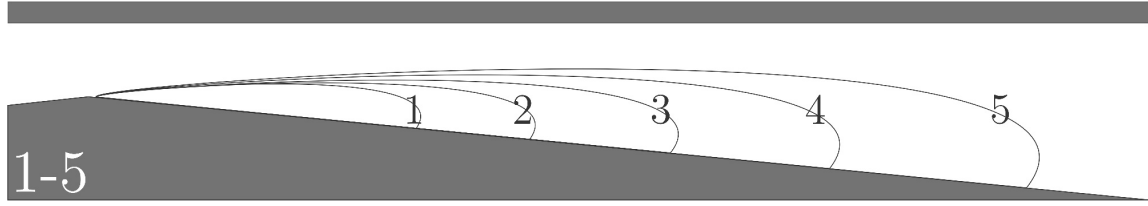
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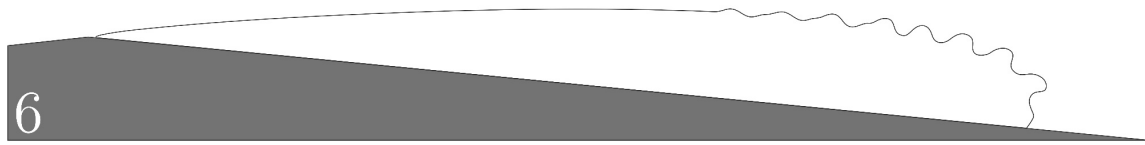
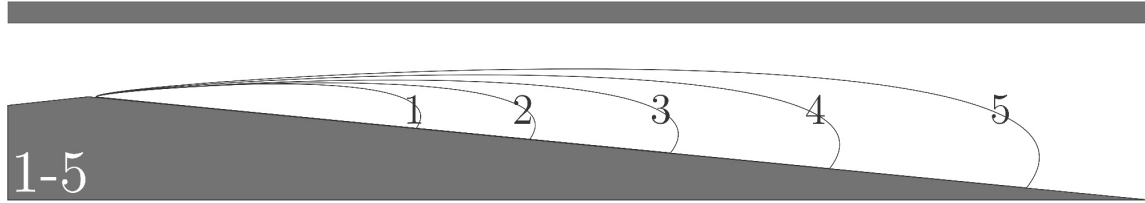
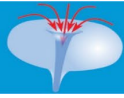


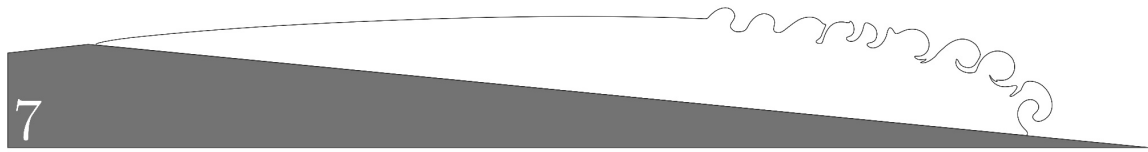
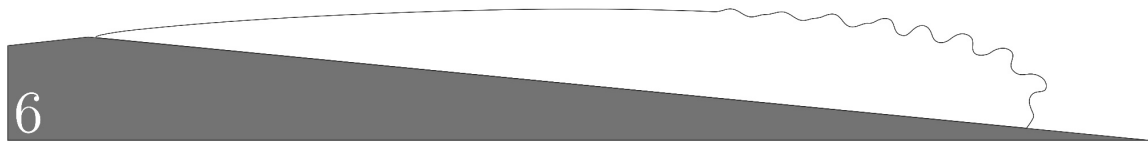
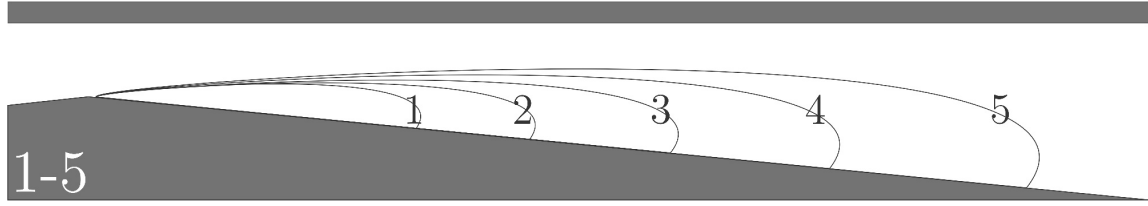
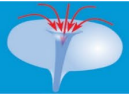


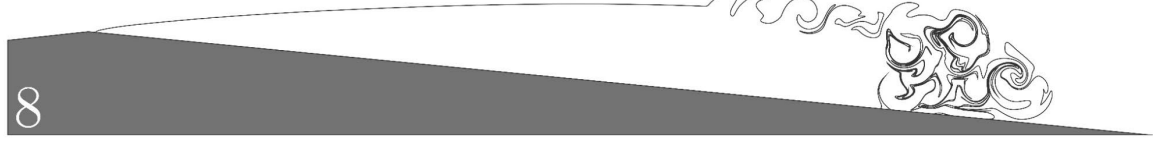
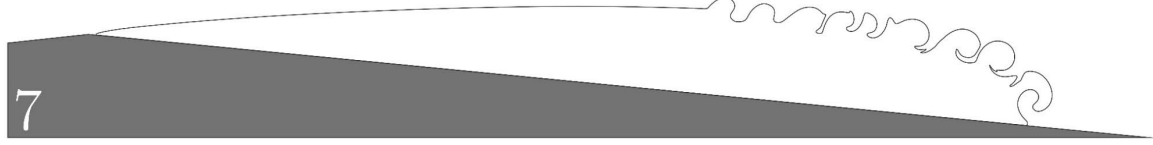
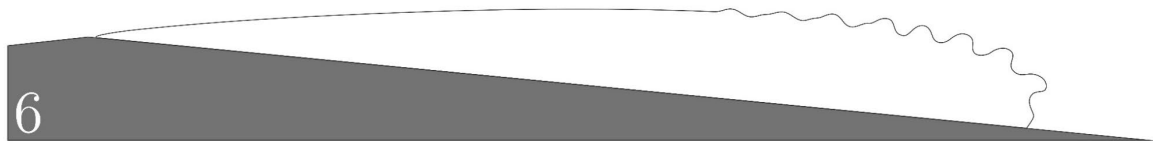
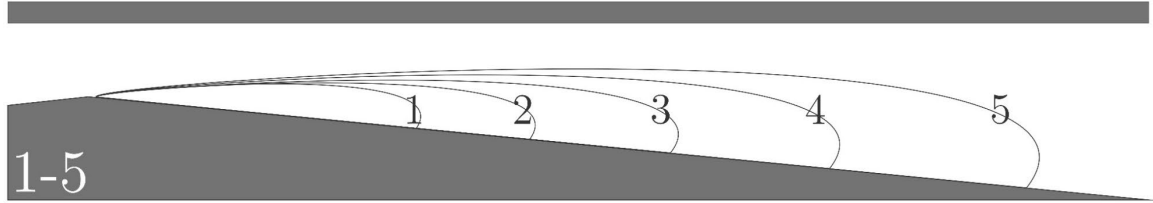
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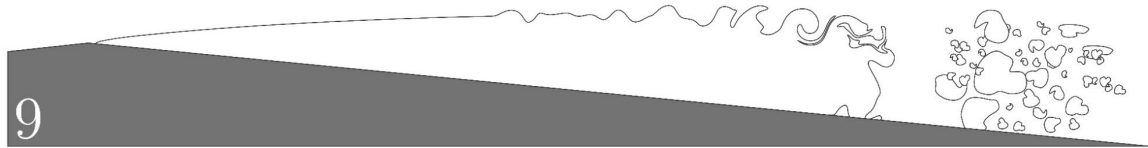
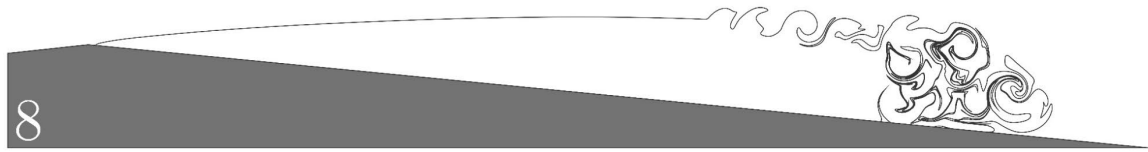
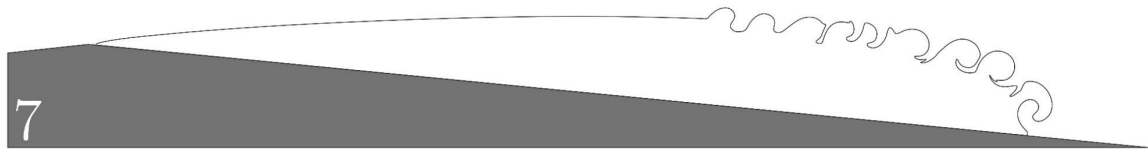
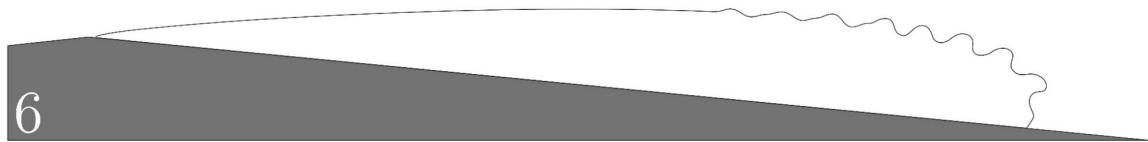
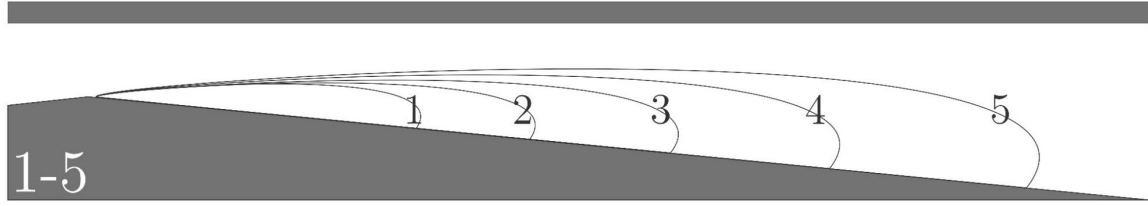
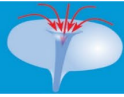


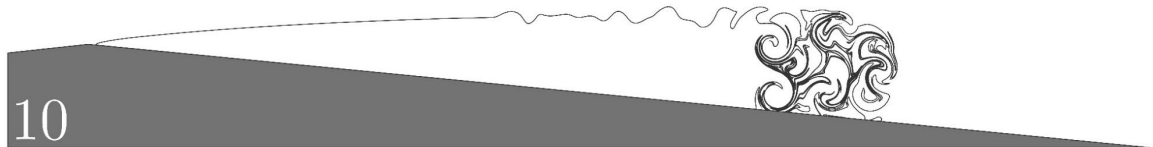
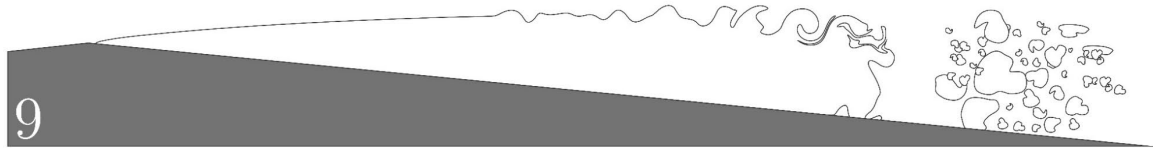
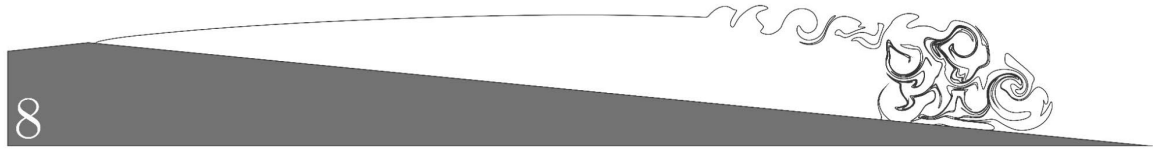
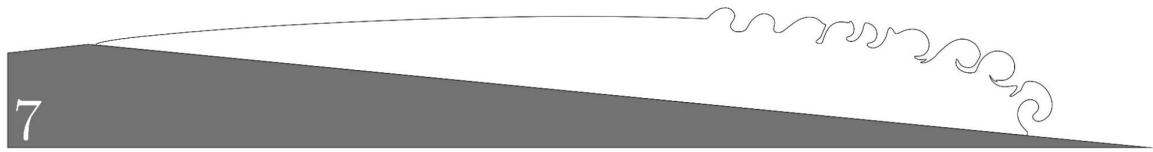
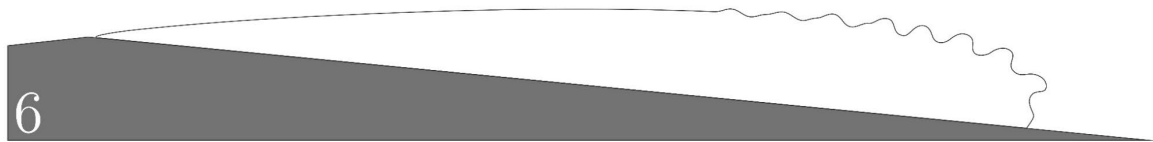
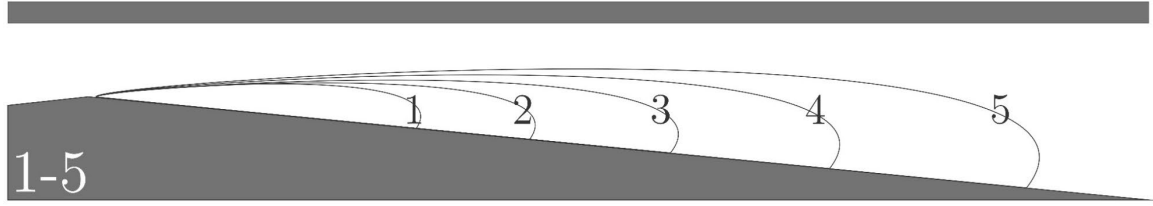
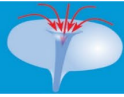


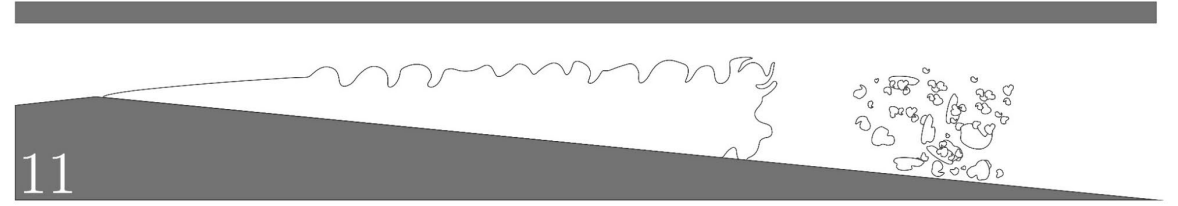
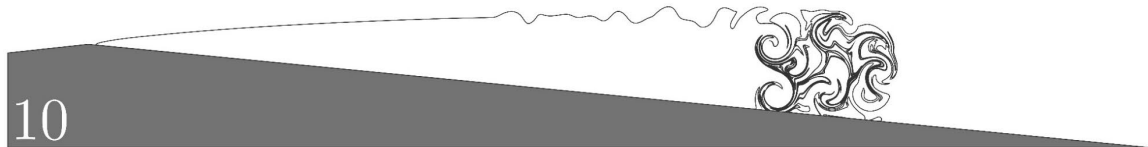
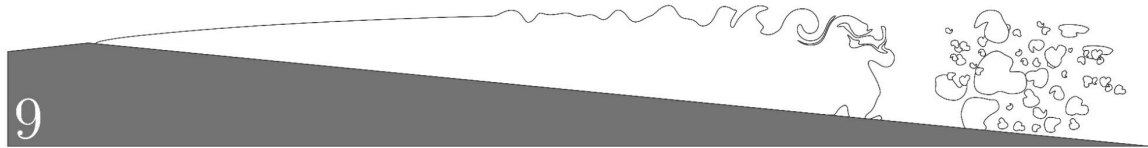
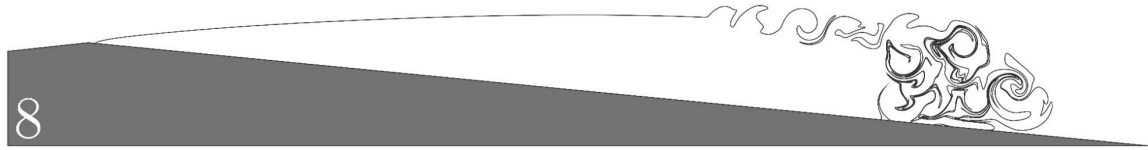
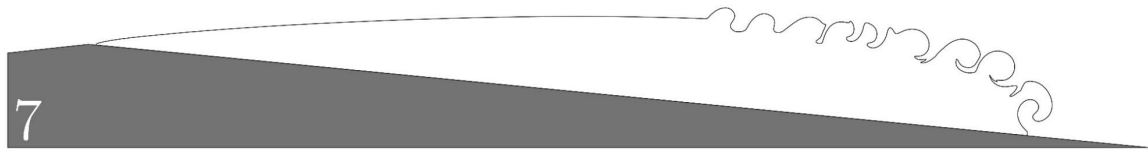
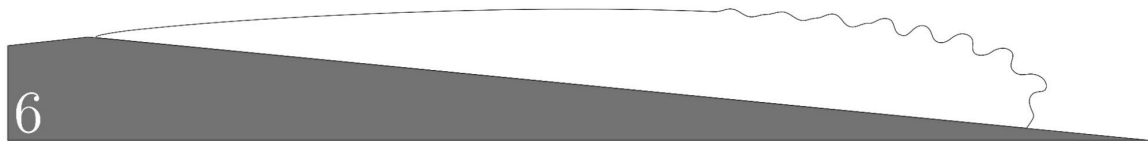
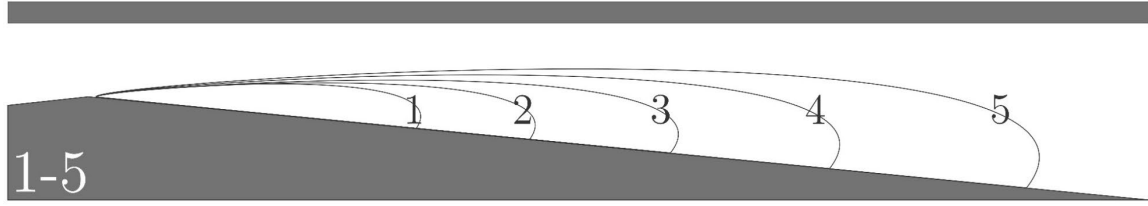
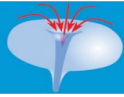


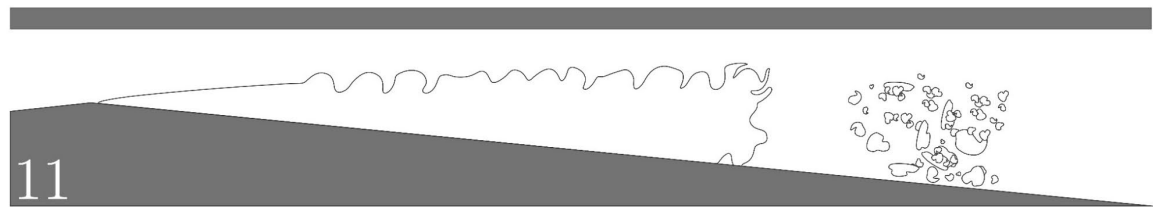
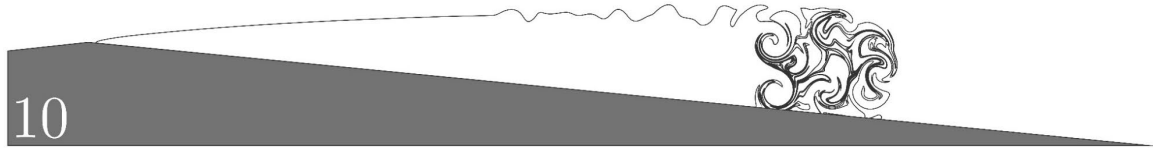
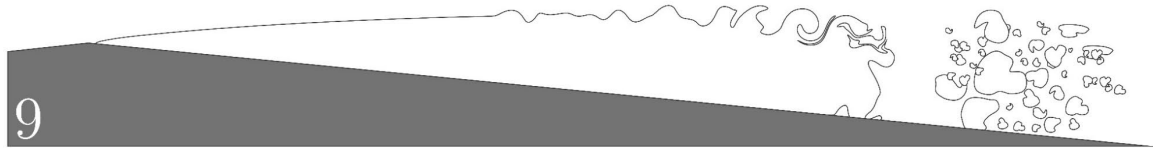
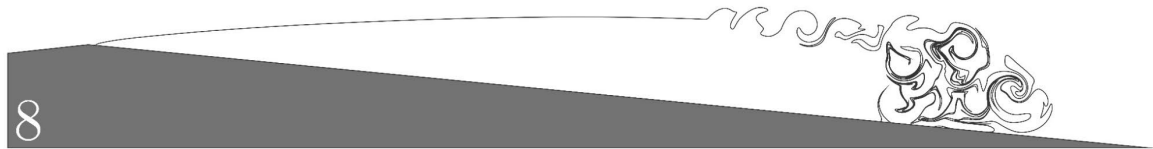
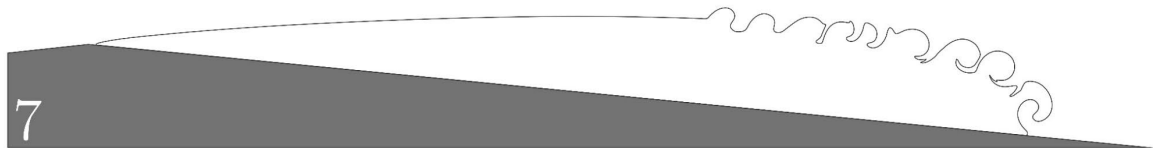
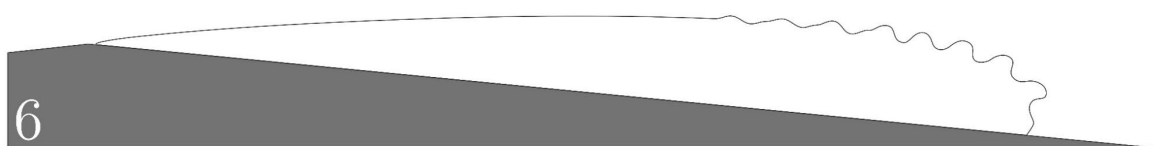
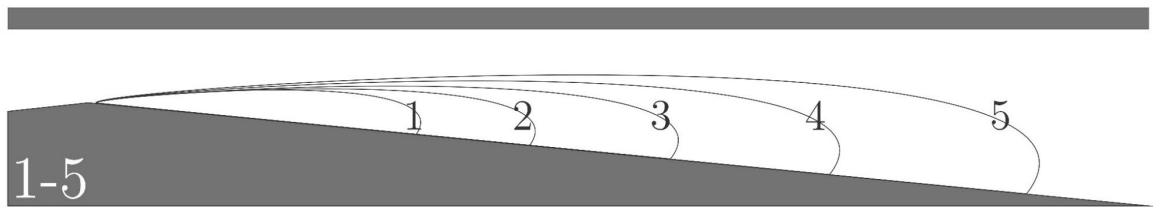
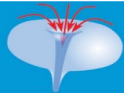


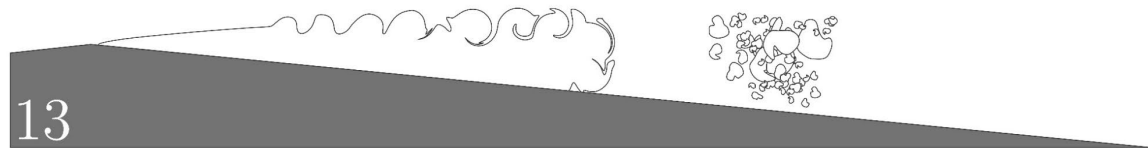
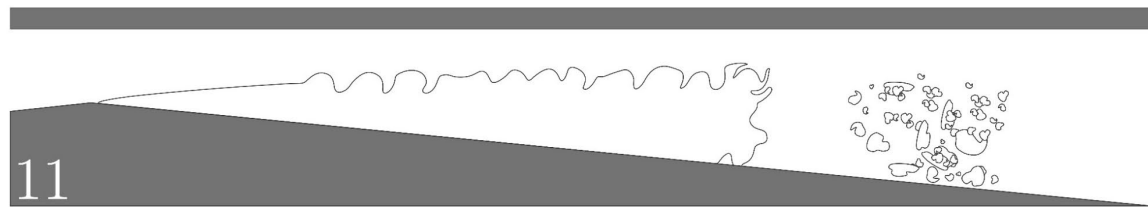
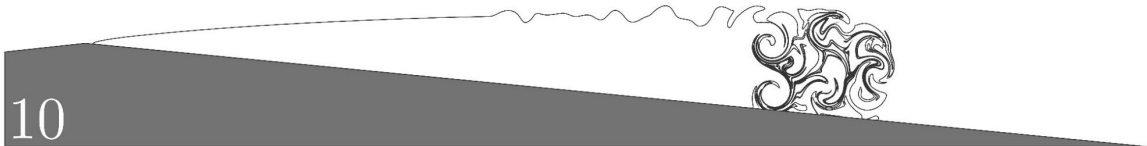
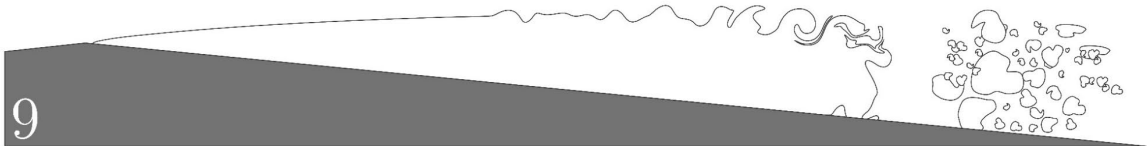
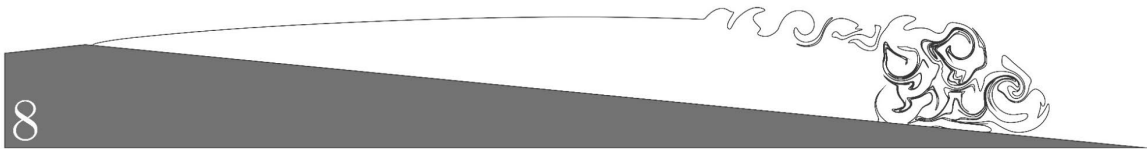
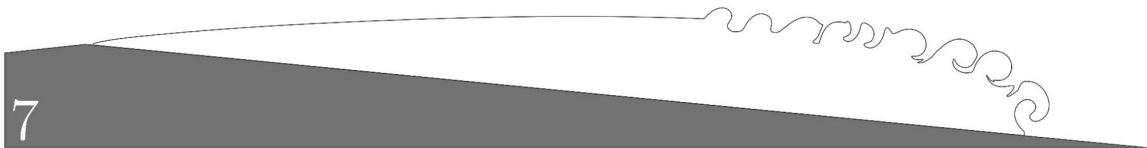
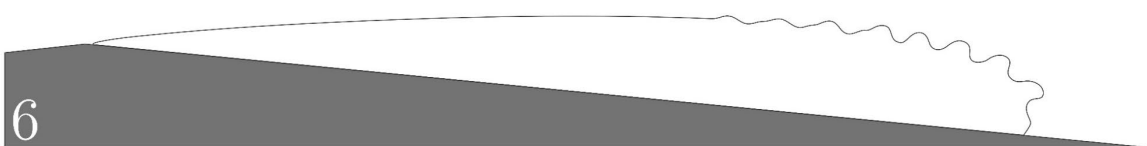
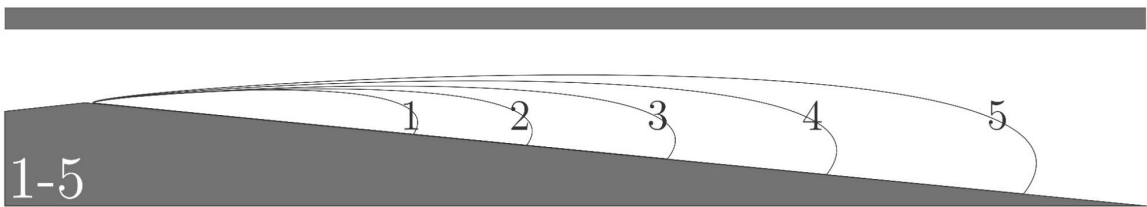


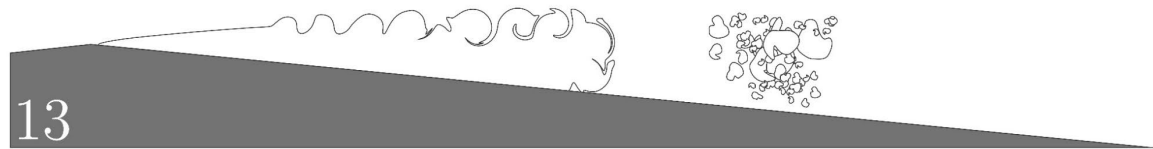
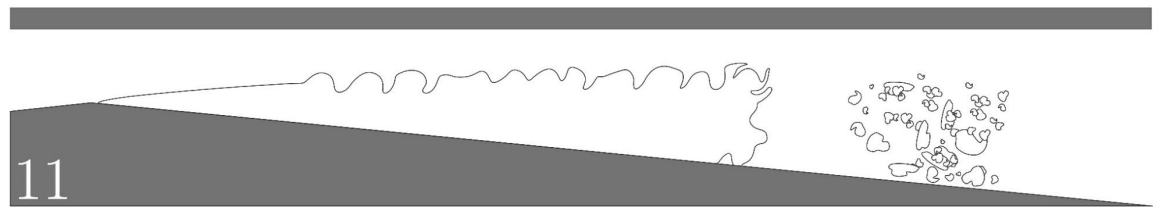
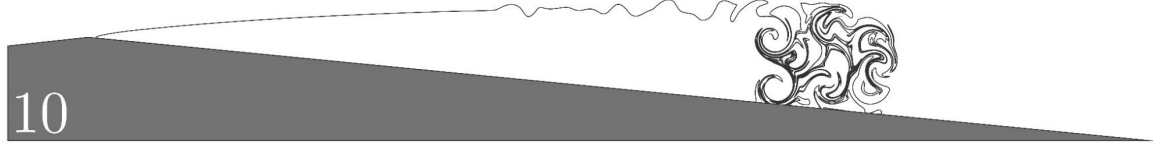
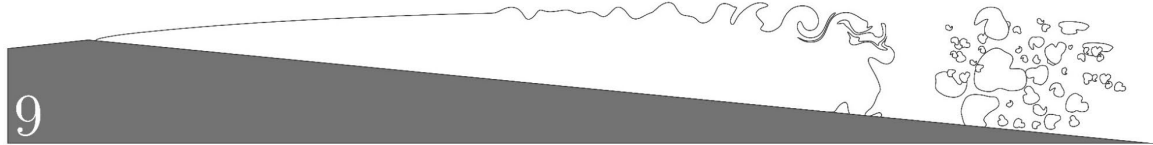
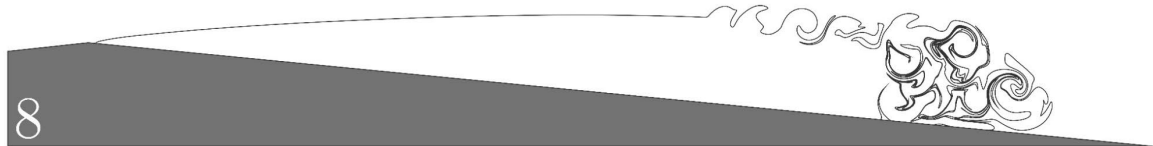
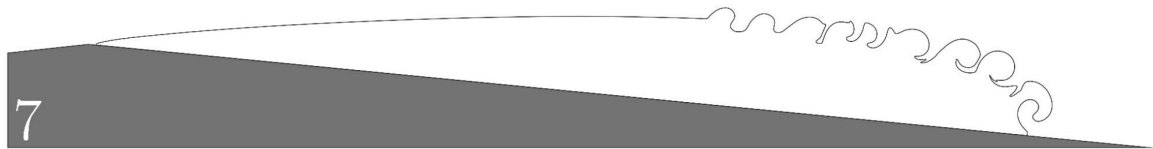
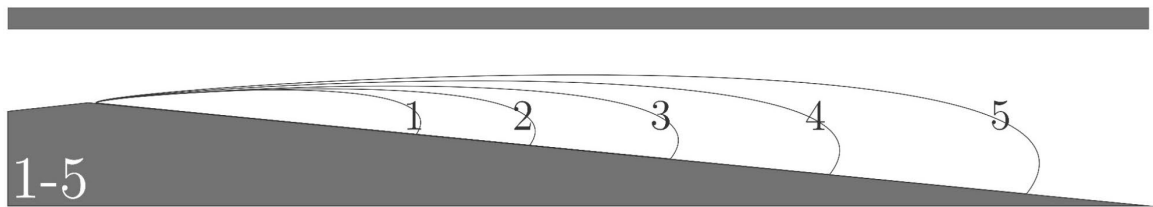


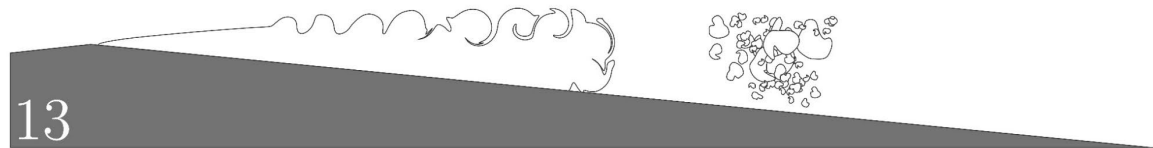
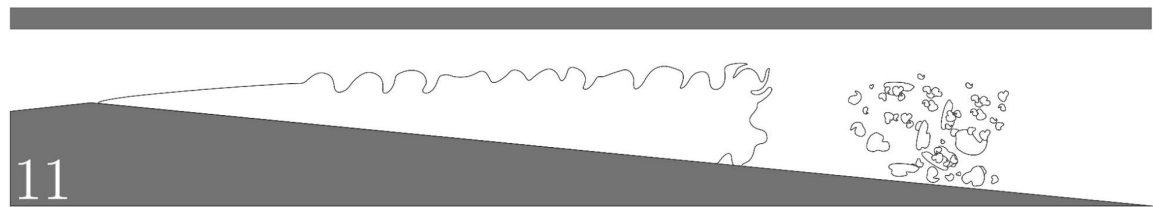
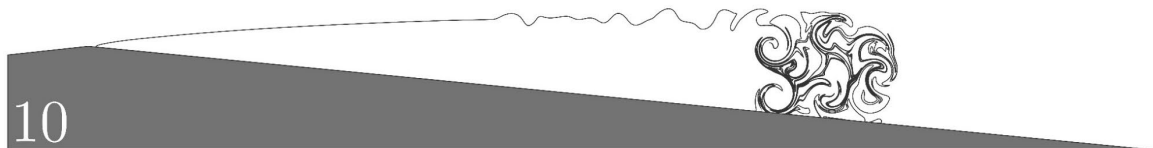
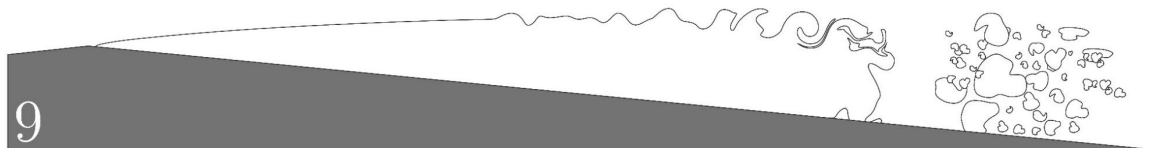
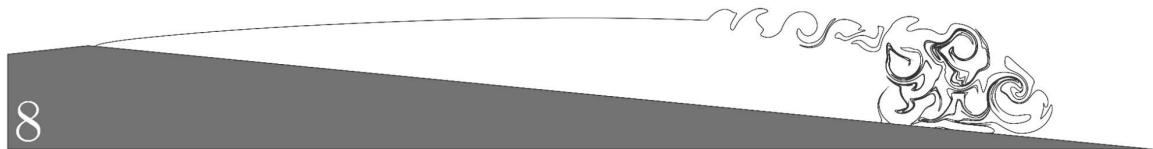
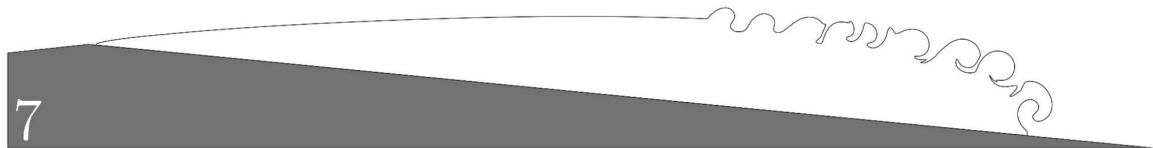
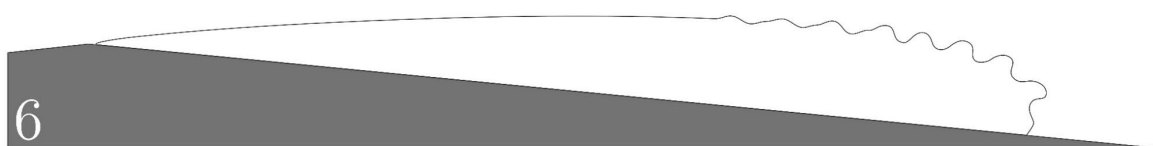
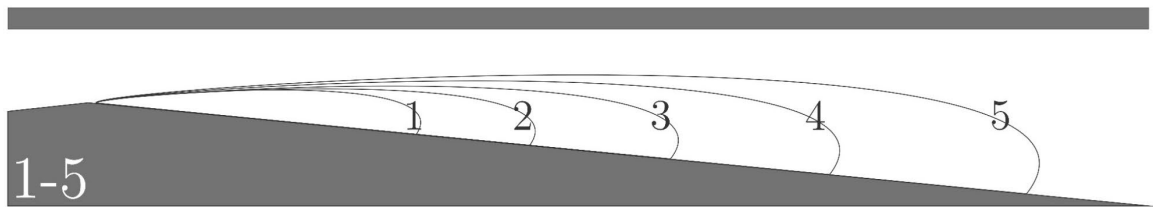


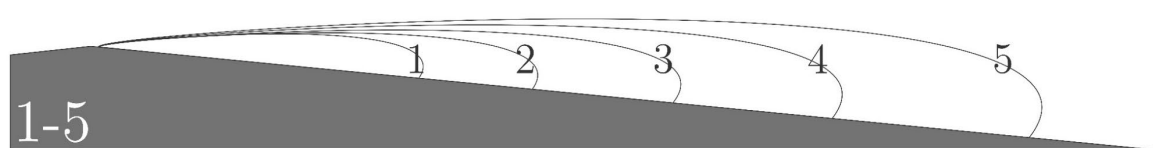
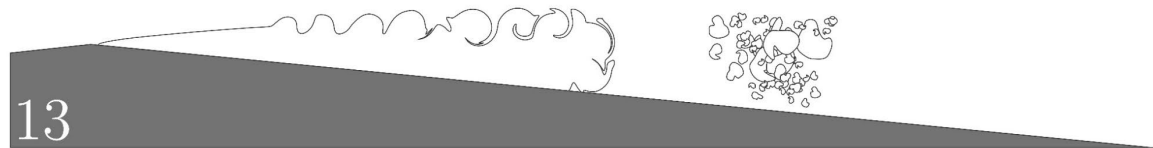
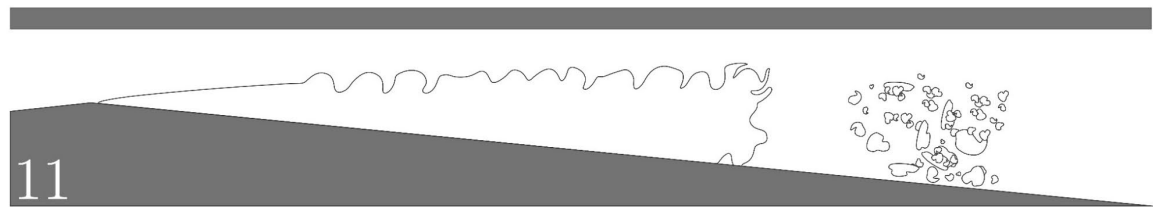
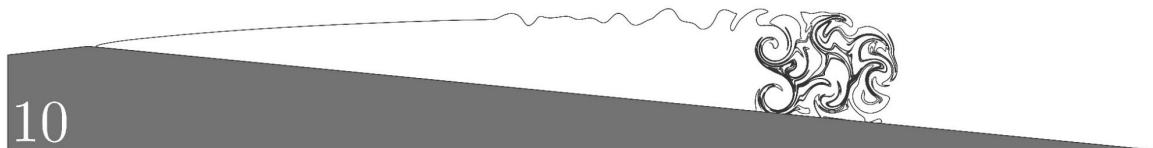
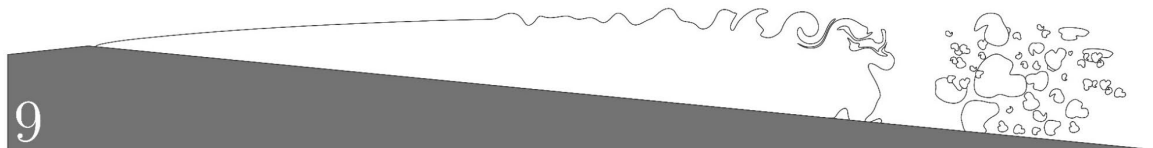
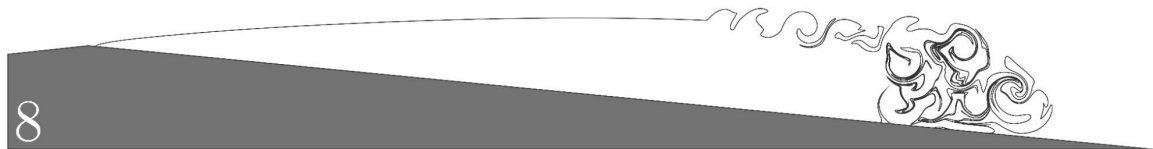
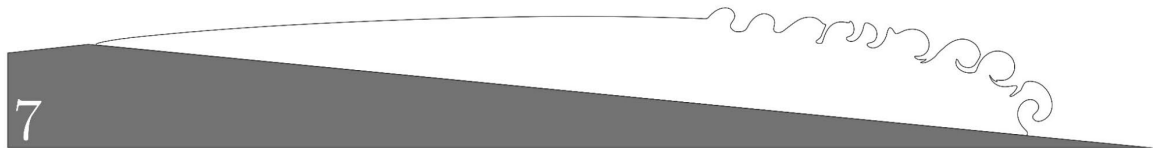
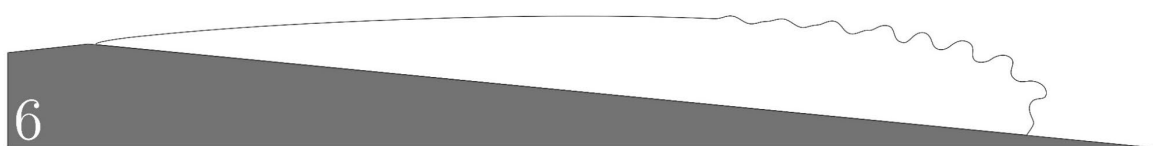
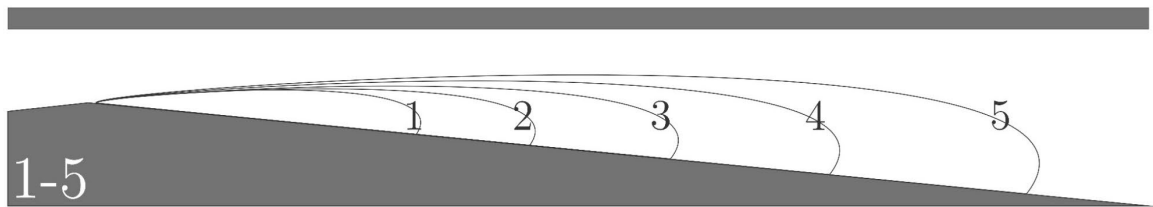


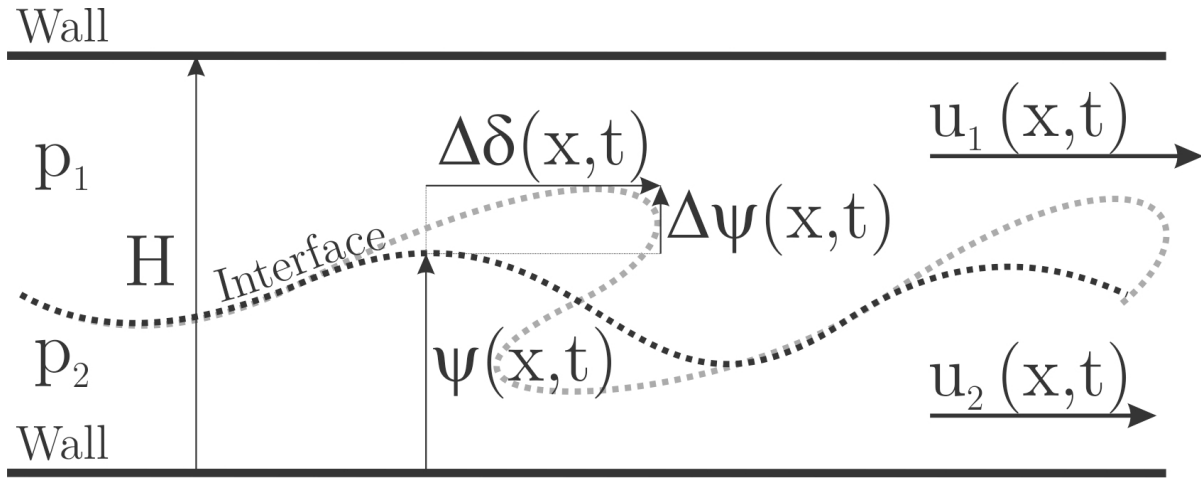
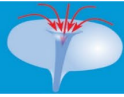


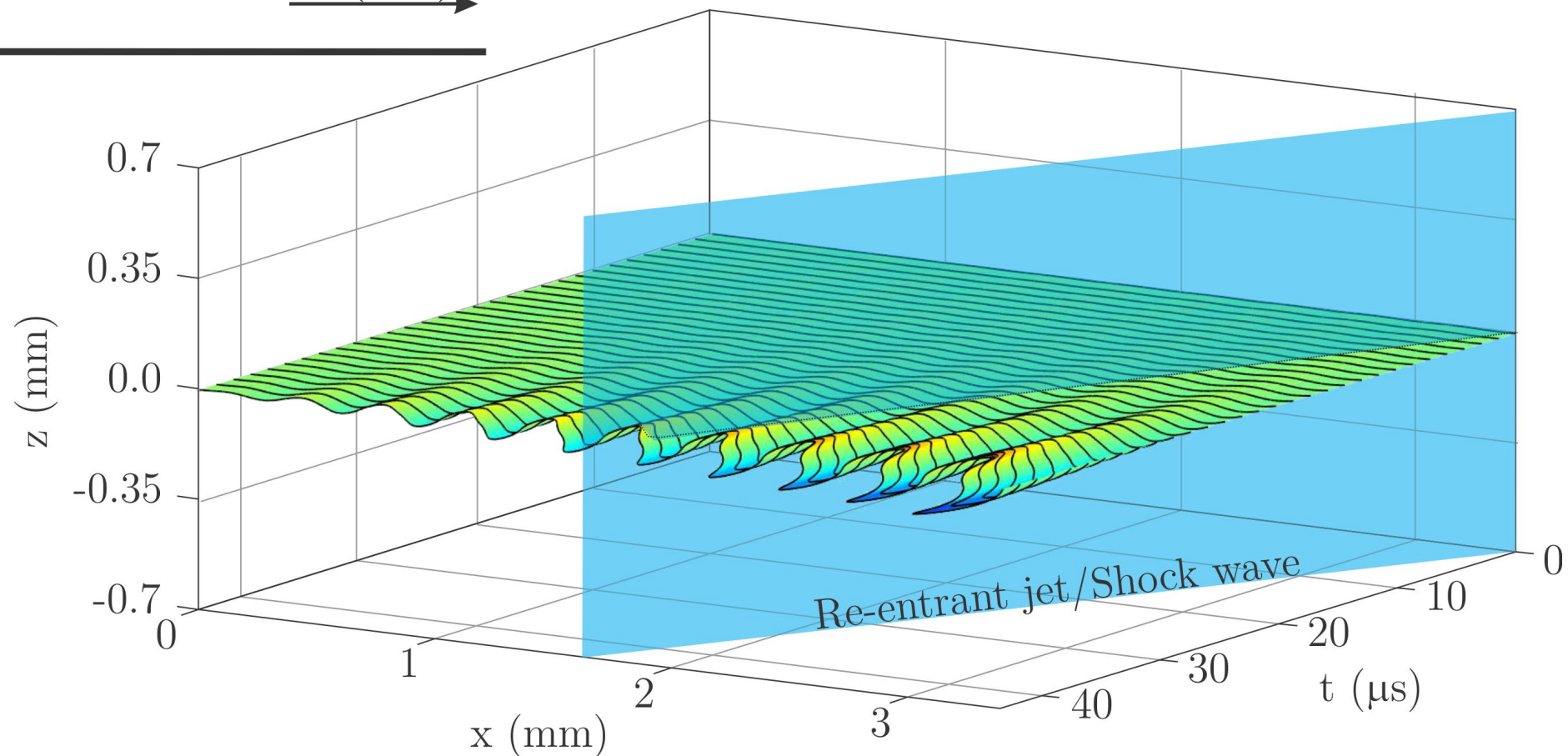
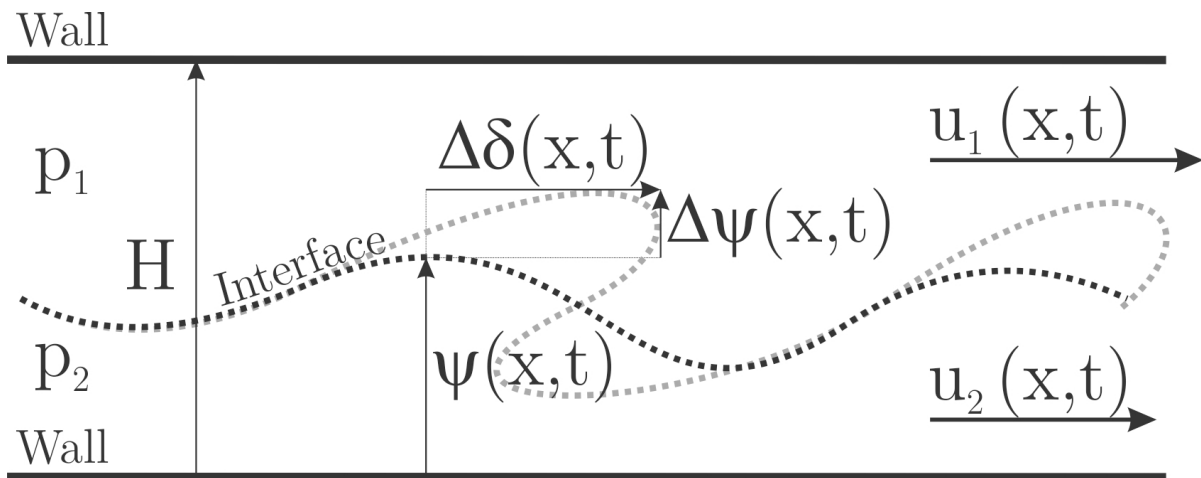


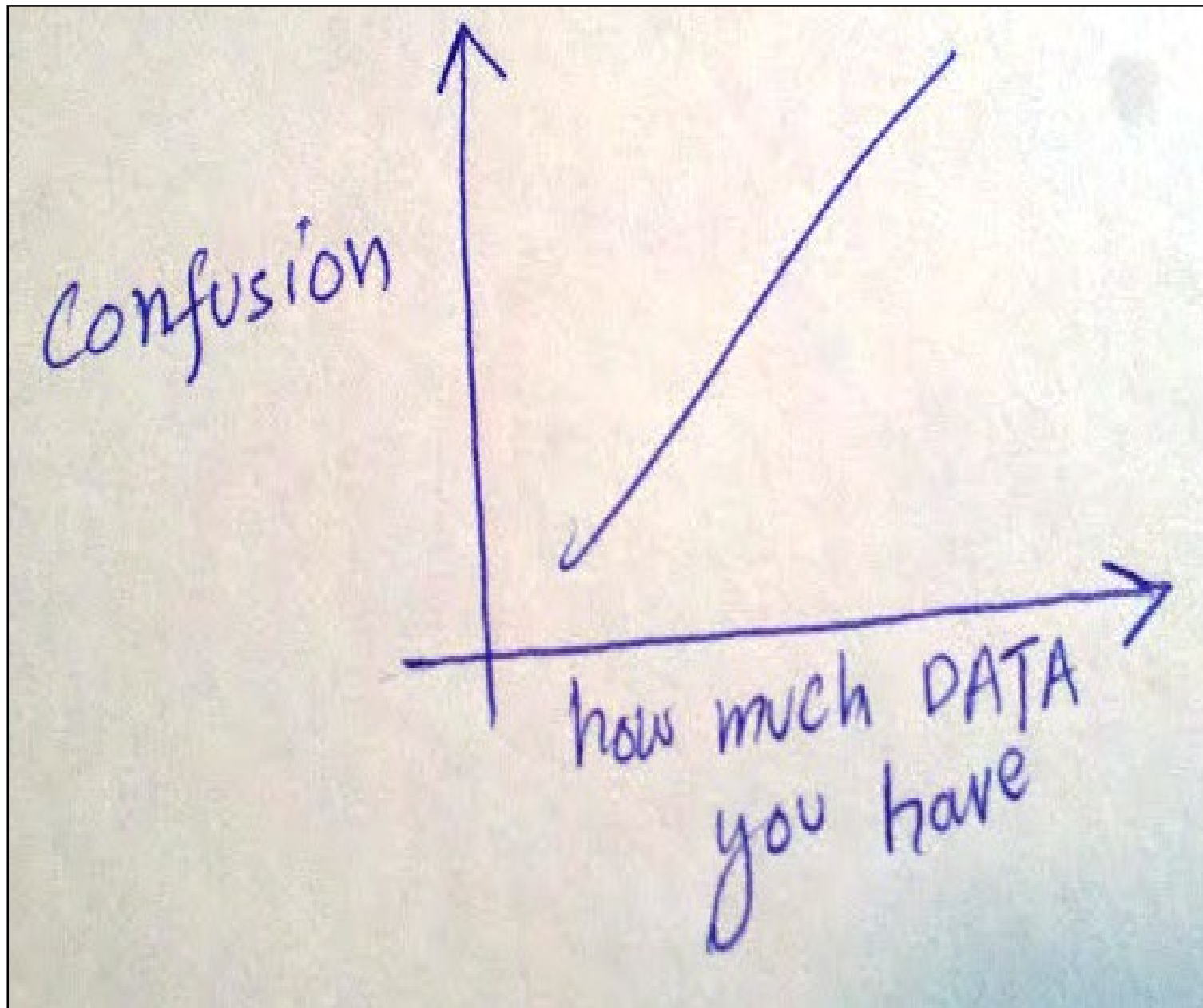








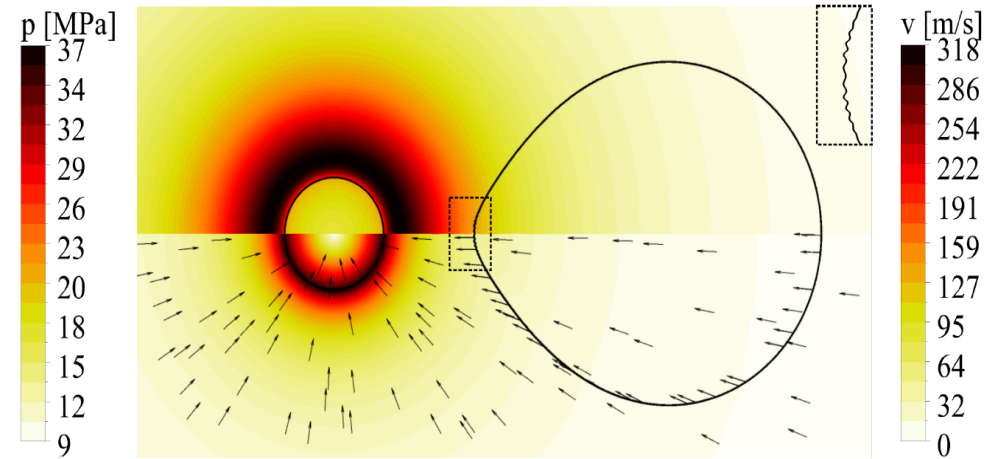
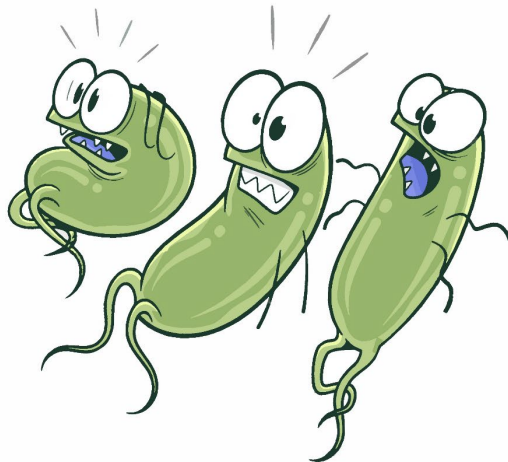






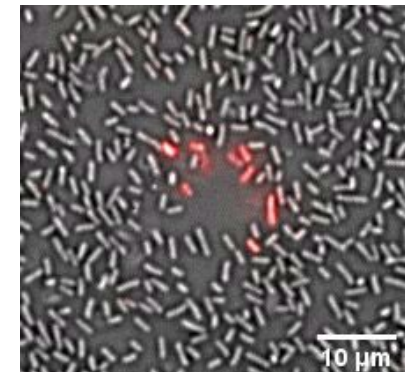
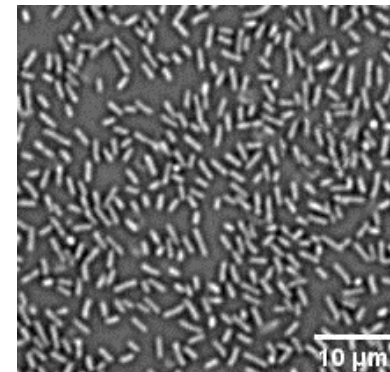
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CABUM: An investigation of the mechanisms at the interaction between cavitation bubbles and contaminants



Pred

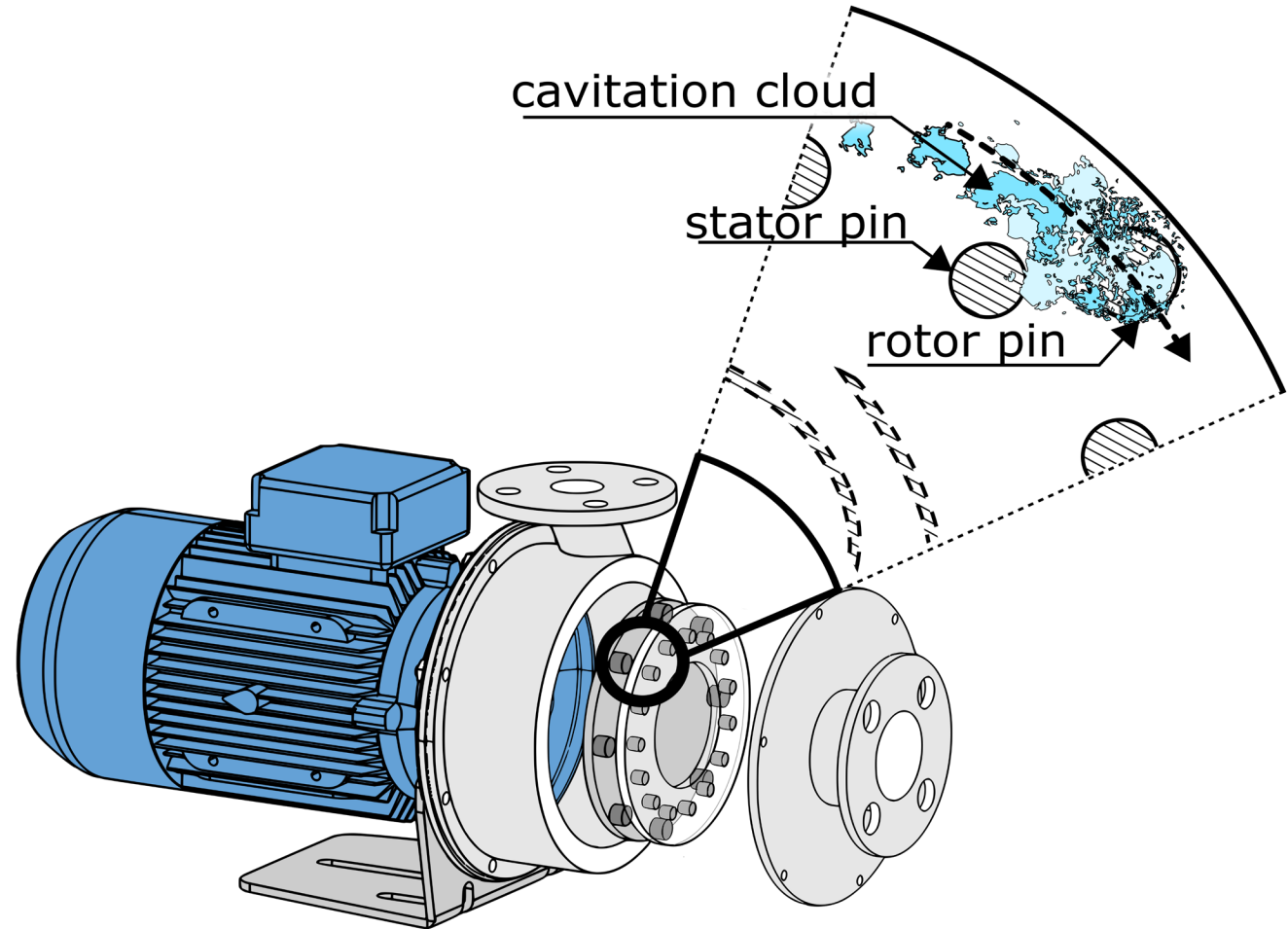
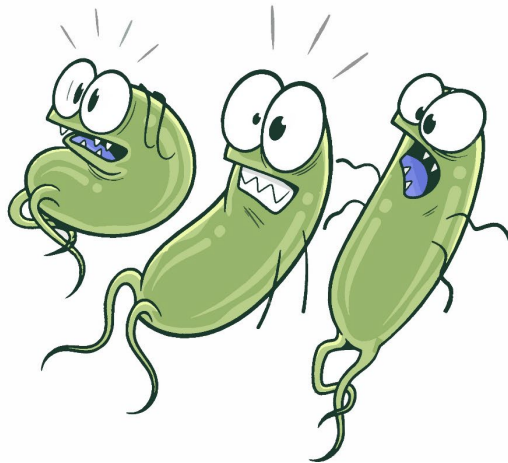
Po





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CAVIPHY: Exploitation of extreme cavitation conditions for wastewater treatment







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- Vloga “Zahteva za namenitev dela dohodnine za donacije (Doh-Don)”.
- V vlogi vpišite naziv organizacije (Inštitut ASEF),
- davčno številko (84740175) in
- delež, ki ga namenjate (0,1, %, 0,2 %, ... 1%).

2. Z izpolnjevanjem **fizične kopije dokumenta** - lastnoročni podpis. Dokument lahko dobite danes pri nas. Na Finančni urad ga pošljemo na naše stroške.

Z vašo donacijo bo ASEF lahko še dalje omogočal nove priložnosti za mlade talente in povezoval Slovenijo s svetom.