IPSSC + CMBO

STUDENTS' CONFERENCE

Jožef Stefan International Postgraduate School and Young Researchers' Day CMBO 19 and 20 April

With fast ions faster to fusion energy Use of micro-IBA to study of fuel and impurities species migration and retention in fusion reactors

Department of low and medium energy physics – F2, Jožef Stefan Institute

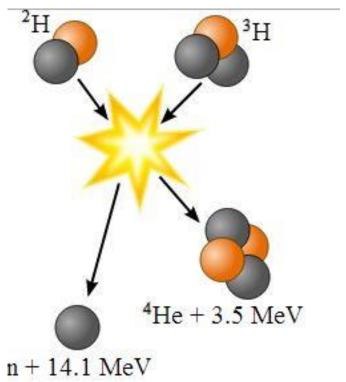
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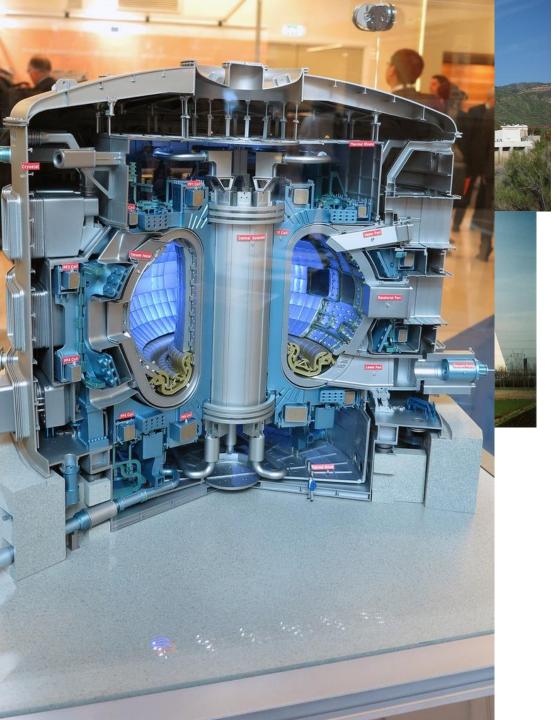
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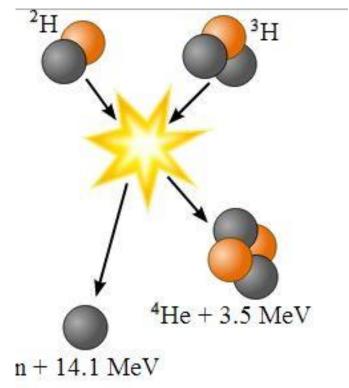
Mitja Kelemen,

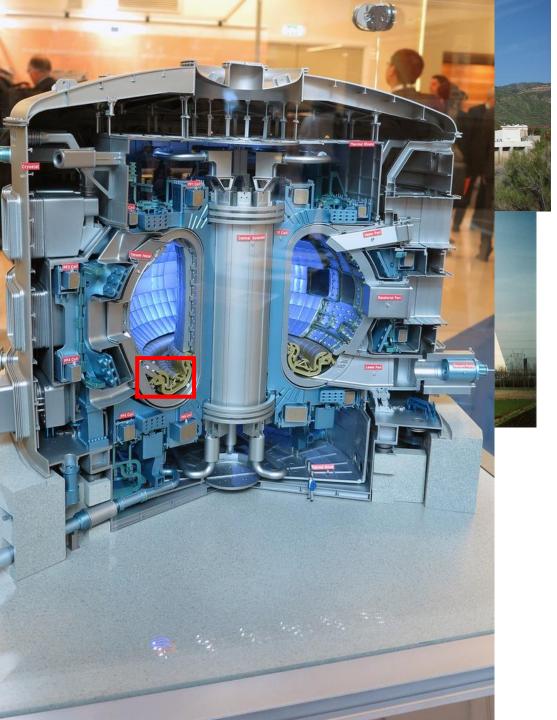


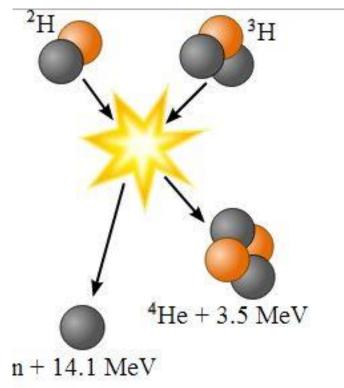


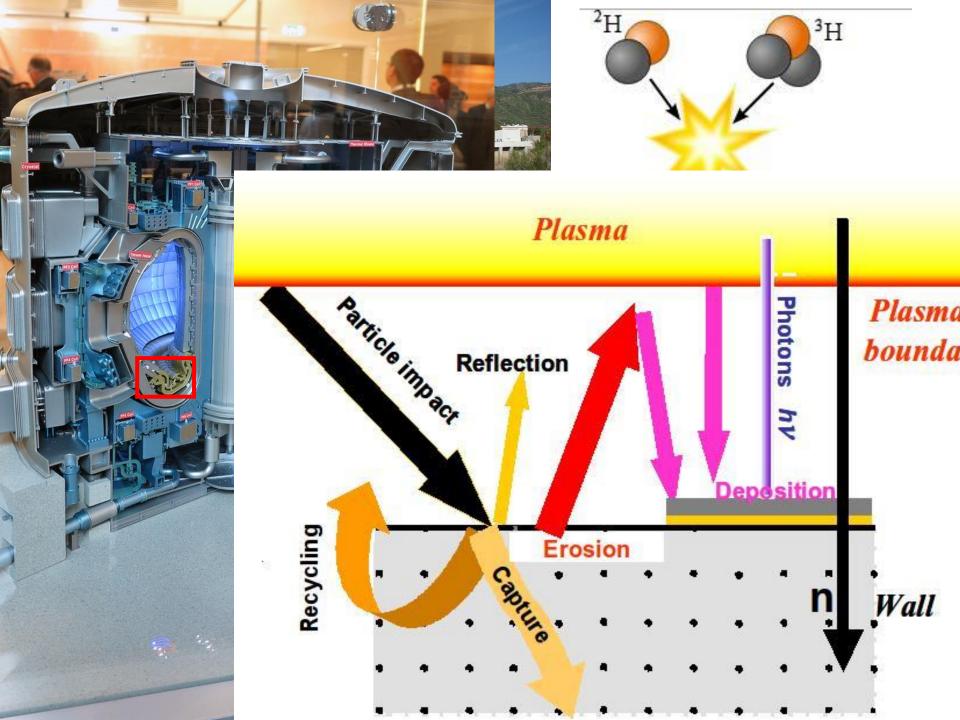


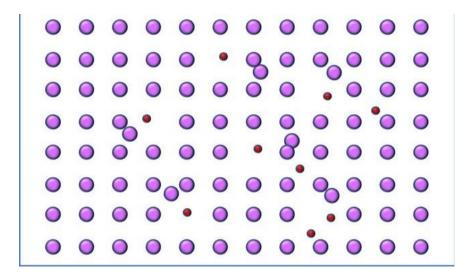






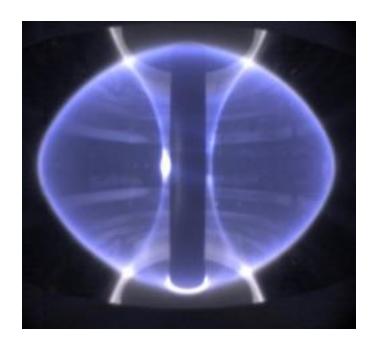






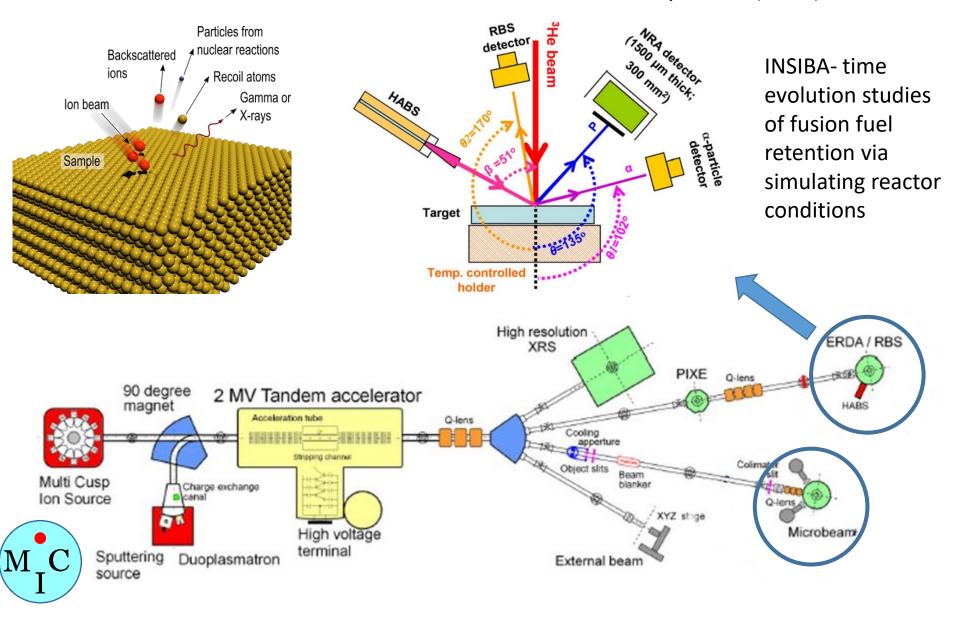
One of critical issues is accumulation of fusion fuel in the inner wall of fusion reactor.

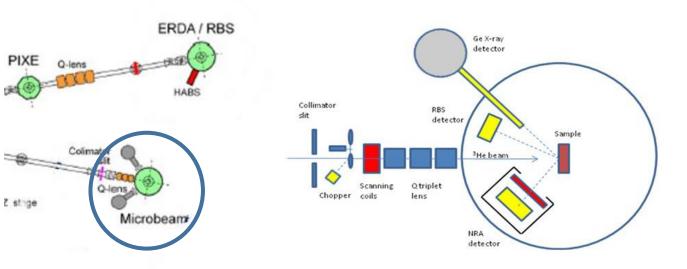






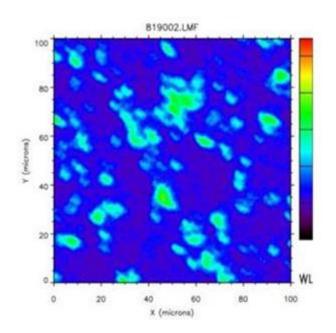
Studies of fuel retention with ion beam analytical (IBA) metod





Microbeam experiment alows us to perform postmortem analysis of impurities and fusion fuel migration with high lateral resolution up to 500 nm.

Fast ions provide powerful



nondestructive and quantifiable analytical tool for study processes of fusion fuel and impurity retention and migration in materials used in fusion reactors.



