

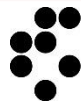


Po-210 and Pb-210 - introduction

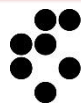
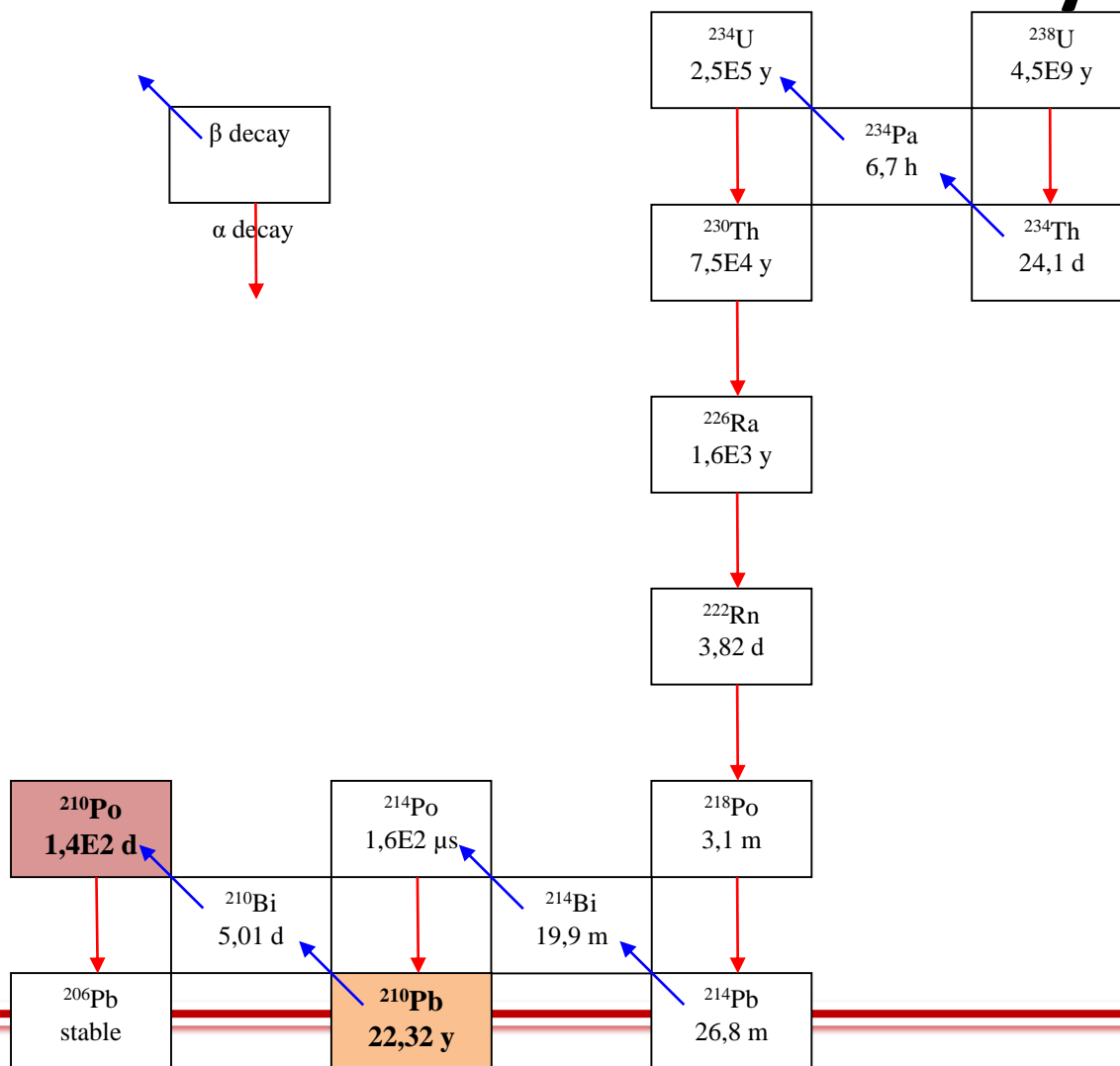
Marko Štrok
Jožef Stefan Institute



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Euratom research and training programme 2014-2018 under grant agreement No 754 972

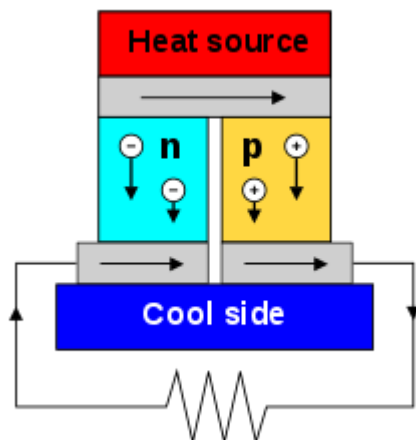


Occurrence in uranium decay chain

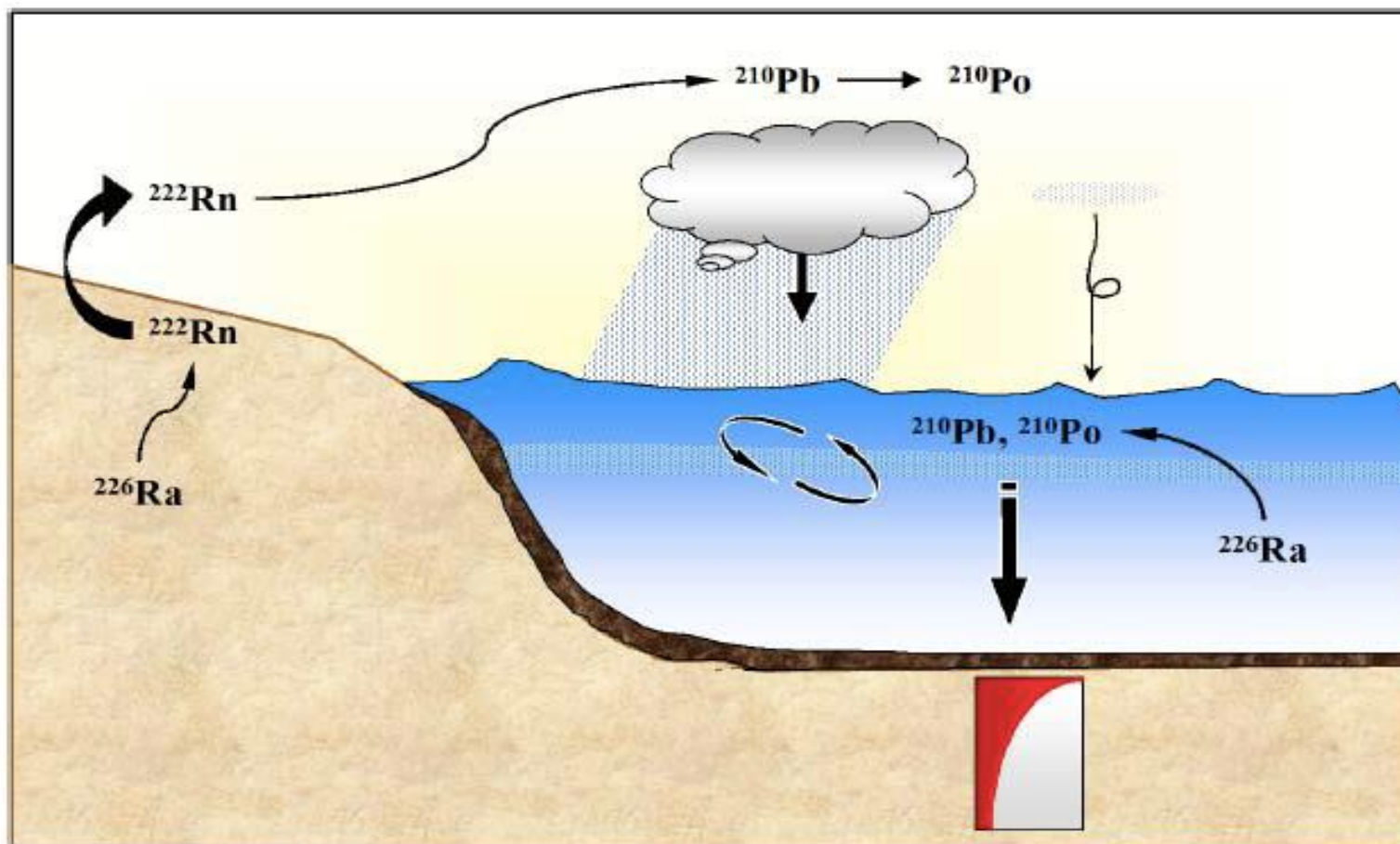


Po-210 production and historical use

- Po-210 produced from neutron irradiation of Bi-209 in nuclear reactor
- Used as a heat source to power thermoelectric generators
- neutron source using BeO
- in brushes to eliminate static charges
- for teaching purposes in experiments such as cloud chambers



Pb-210 dating of sediments



Detection of Pb-210

- Proportional counter



- Gamma spectrometry

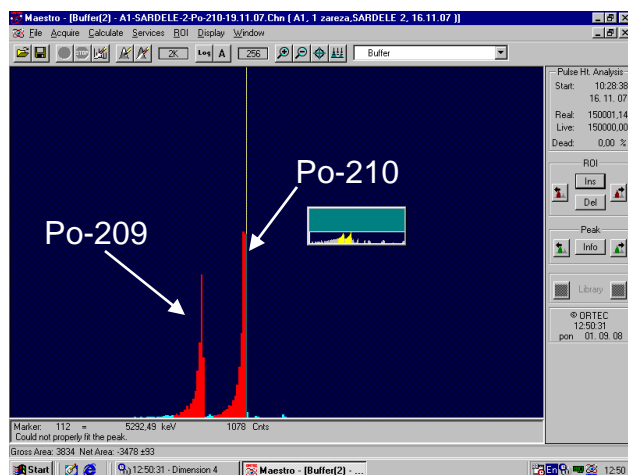
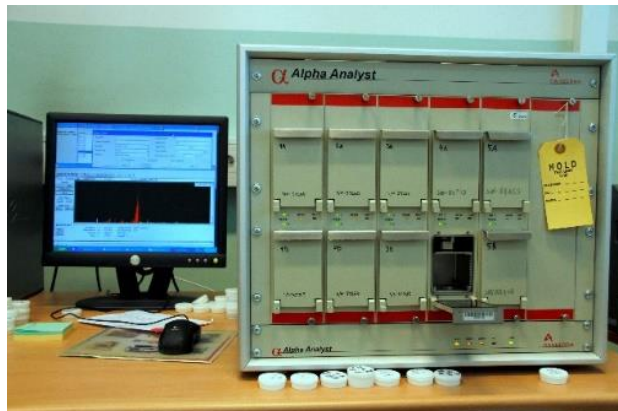


- Liquid scintillation counting



Detection of Po-210

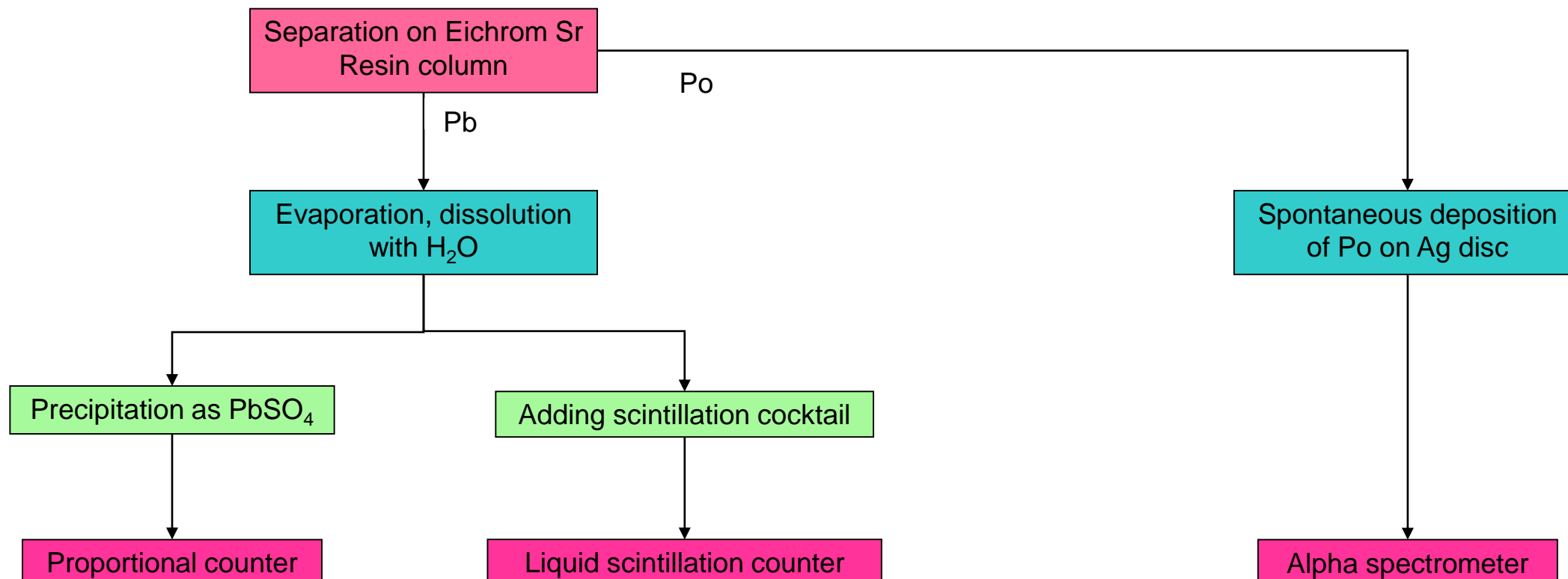
- Alpha spectrometry



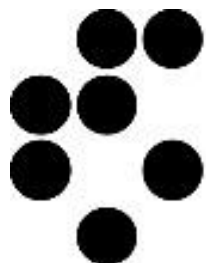
- Liquid scintillation counting



Simultaneous separation of Po-210 and Pb-210



meet cinch



Institut "Jožef Stefan", Ljubljana, Slovenija



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Euratom research and training programme 2014-2018 under grant agreement No 754 972

