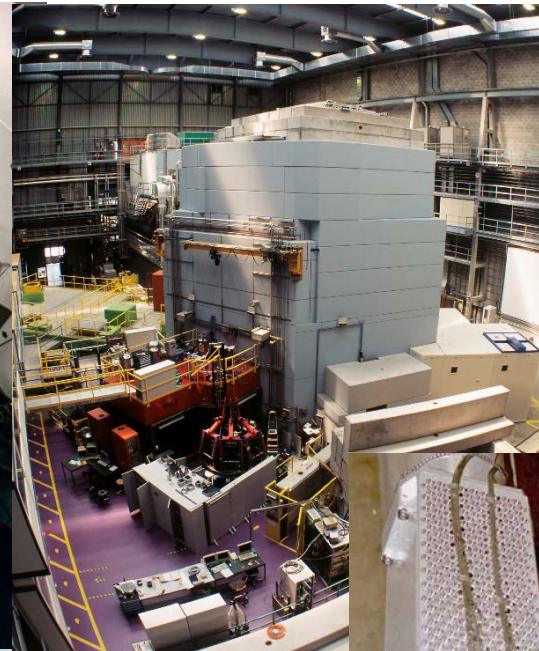
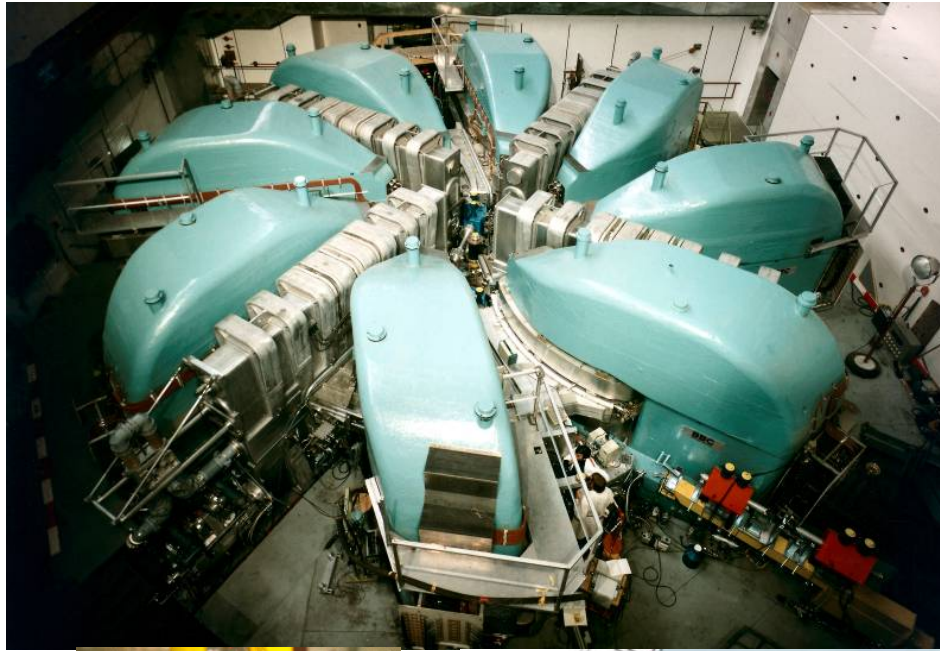
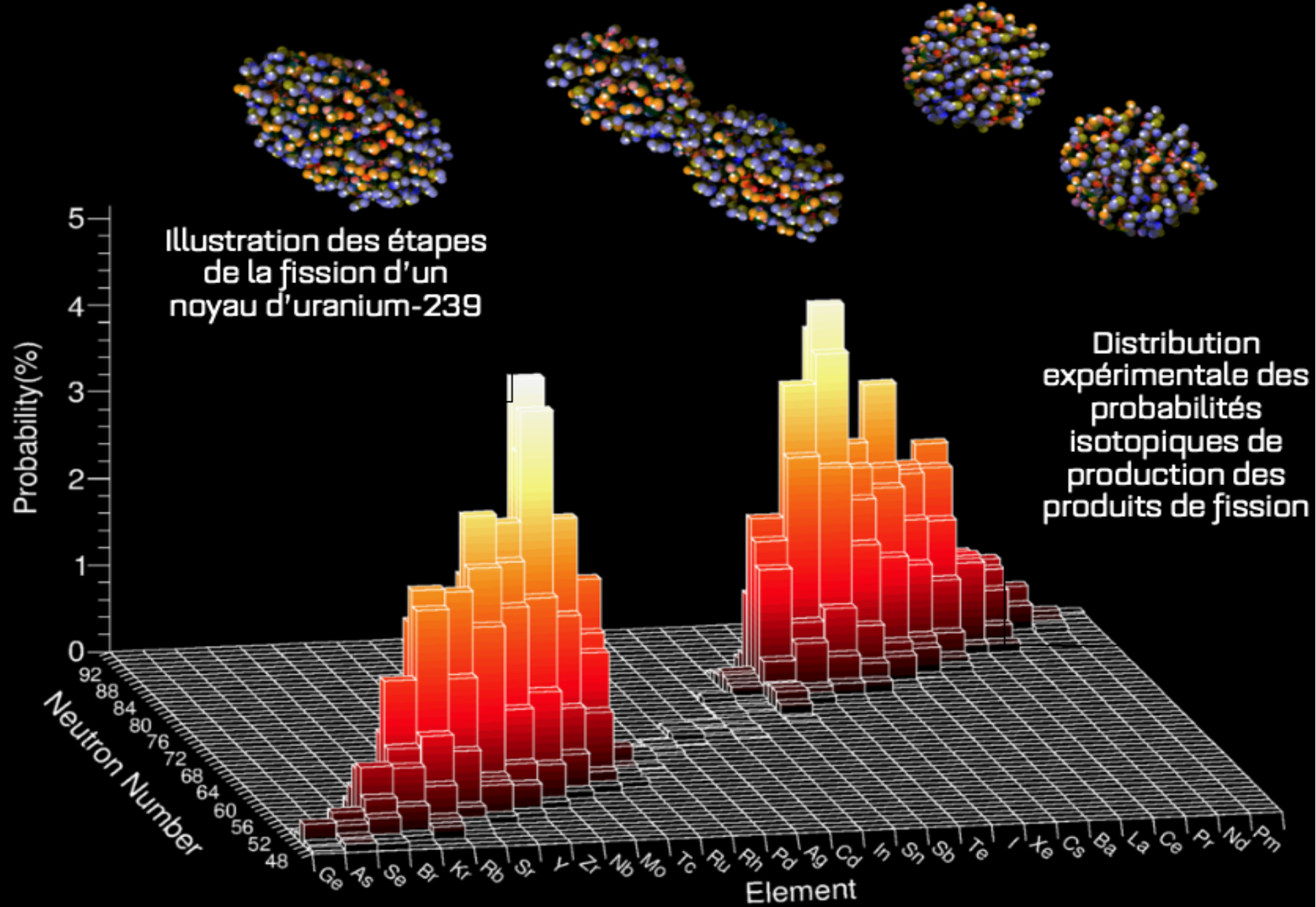


Development of a Aerosol Gas-Jet Degasser-Unit for investigations of Fission-Products

PSI Spallation Neutron Source SINQ Fission Product Chamber

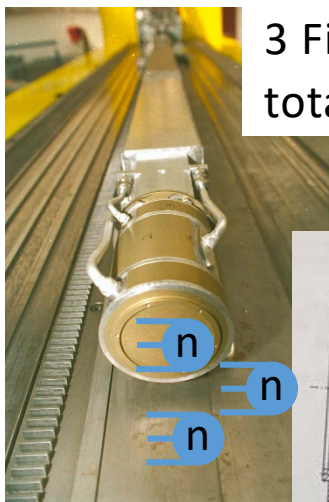




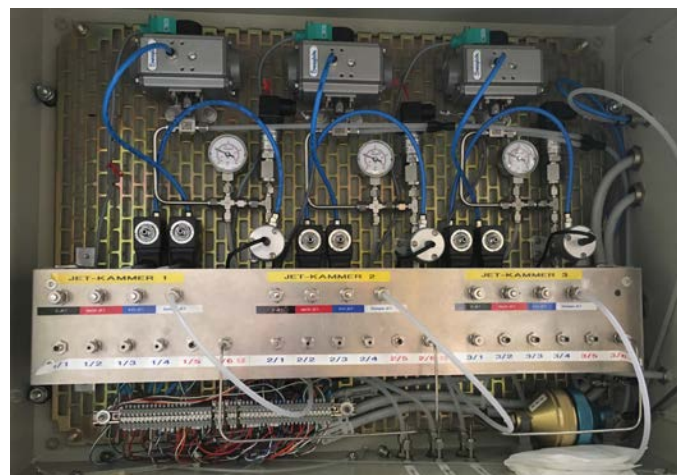
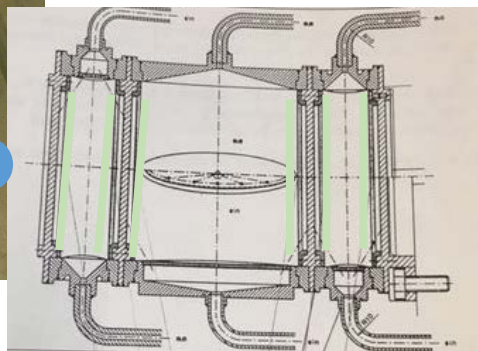
First Direct Measurement of Isotopic Fission-Fragment Yields of ^{239}U

D. Ramos et al.: Physical Review Letters 123 (2019) 092503

GAS-JET FOR FISSION-PRODUCTS

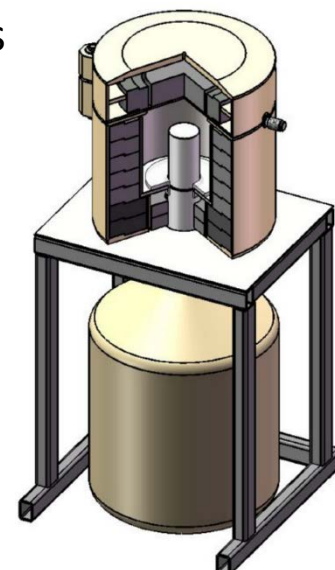


3 Fission-Chambers
total six ^{235}U targets



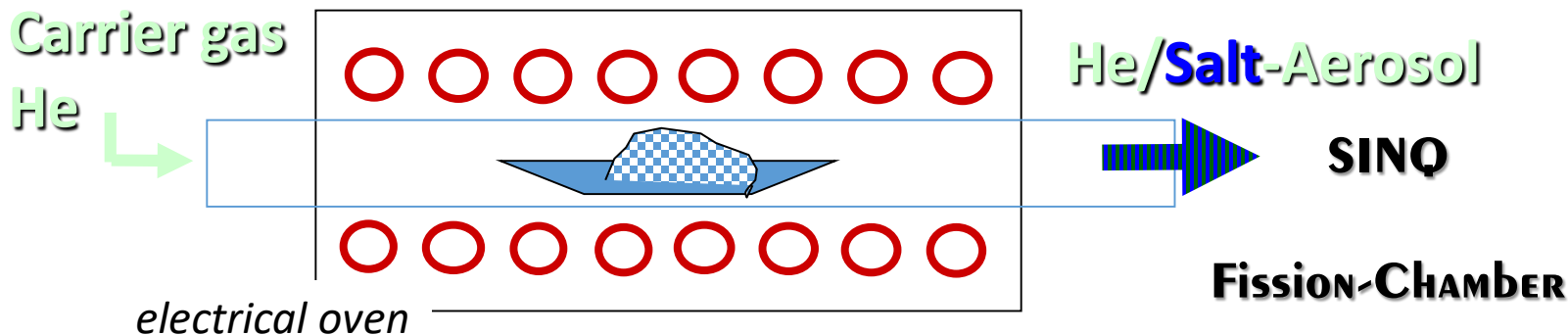
- ❑ All Chambers can be flushed:
 - Aerosol Gas-Jet
(all Fission-Products)
 - carbon particles
 - salt particles
 - Pure He Gas-jet
(only volatile Fission Products)

- WBGA C41-Laboratory
- 3 chemistry hoods
- Gamma Detector

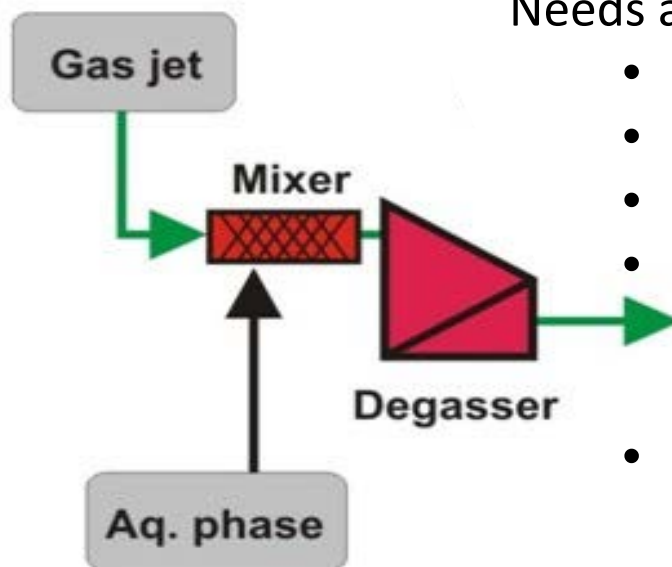


AEROSOL GENERATION & DeGASSER

Salt-Aerosol generators: KCl , $CsCl$, PbO , PbI_2 , MoO_3

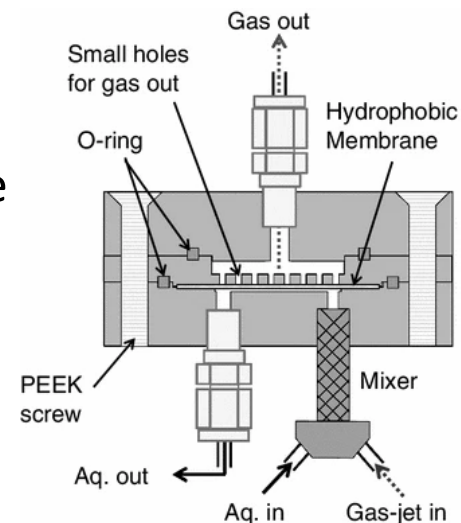


SINQ RETURN



dissolution of Aerosols
Needs a DeGasser unit:

- gas permeable membrane
- rotating drum impactor
- Wet-denuter
- Zyklon
- or other principles



sectional view of the
Membrane DeGasser