

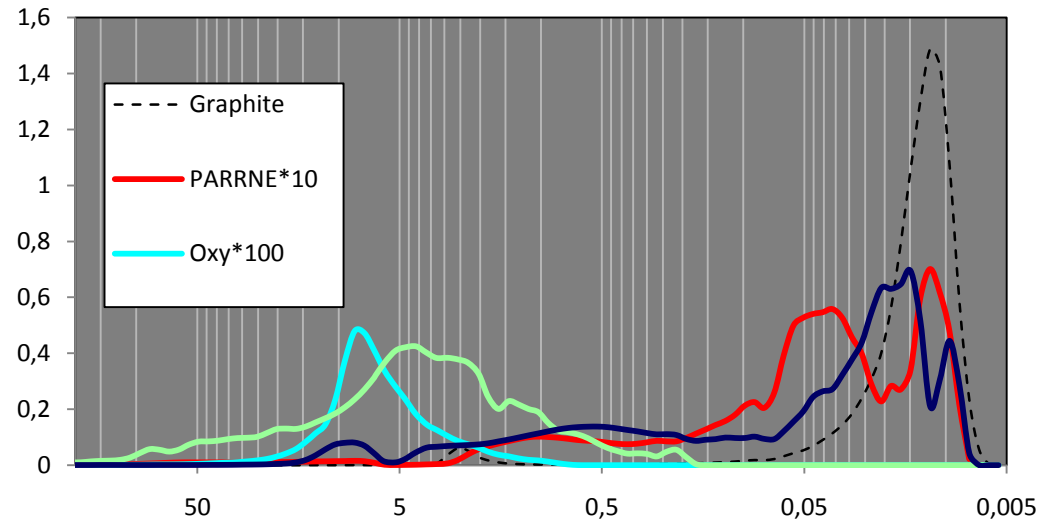
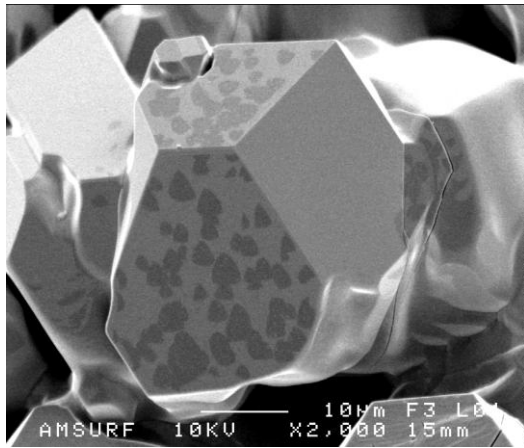


# R&D at IPNO on fission targets

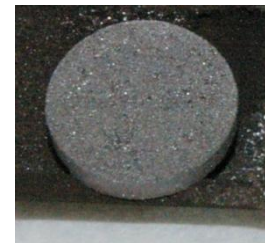
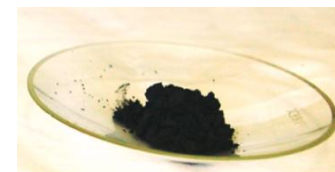
- R&D for *Spiral2*  in collaboration with the material lab of 
  - Synthesis of  $UC_x$  pellets
  - Pellet characterization
  - Release tests
- Project PRISCUS (ANR just submitted)
- First priority: ALTO final commissioning expected by March 2011



- ▶ Study of physicochemical properties (by XRD, SEM, porosimeter etc.)
  - @ Collaboration with the radiochemistry group
- ▶ Study of release properties by irradiation tests
  - @ Collaboration with the radiochemistry group and the nuclear physics group NESTER
- ▶ Development of UCX targets throughout European collaborations:
  - @ ActILab (ENSAR)



From synthesis to waste reprocessing...



## Production of Rare Isotopes by Synthesizing Composite of Uranium + Structure

- Extension of R&D on fission target for Spiral2 (3 years)
  - IPNO (ALTO + radiochemistry + nuclear physics group)
  - Sciences Chimiques de
  - LCPR AB (Laboratoire de Chimie Physique et Rayonnement - Alain Chambaudet)
  - GANIL
  
- Focus on composites and sintering processes

