

# Activity: MELLEN + RMD

- complete ICP-MS measurements on samples: NaI-37 powder; NaI-37 tip and tail (LSC+LNGS); NaI-38 (powder+tip+tail); new “large” crystal powder and tip/tail
  - timeline: between march-april
- Test for teflon reflectivity: timeline: april-may
- “large” crystal to be grown at RMD from 10kg of powder: timeline april-may
  - This crystal offers a back up solution in case ZR will not work as expected
- test crystal grown from chunks at RMD: timeline april-may
  - This is critical for testing the RMD capability to perform growth after ZR
- test zone refining at MELLEN: timeline april-may
- transfer zone refiner to RMD: timeline may
- Start activity at RMD with goal to deliver a crystal end of summer – early fall

# Costs involved

- An order of about 20k€ has been submitted to MELLEN in 2022 to make the refurbishment of the zone refiner
  - An upgrade is expected due to: 1) increase of costs for electronics; 2) more upgrades to improve safety in handling the equipment
- An order of about 40k€ (+IVA to be paid in Italy) has been submitted to RMD to start activity on zone refining
  - This includes: manpower, space preparation at RMD, initial tests
- More costs to be expected to complete the work till the end of 2023
  - Agreed contribution from SABRE South of order 60k€