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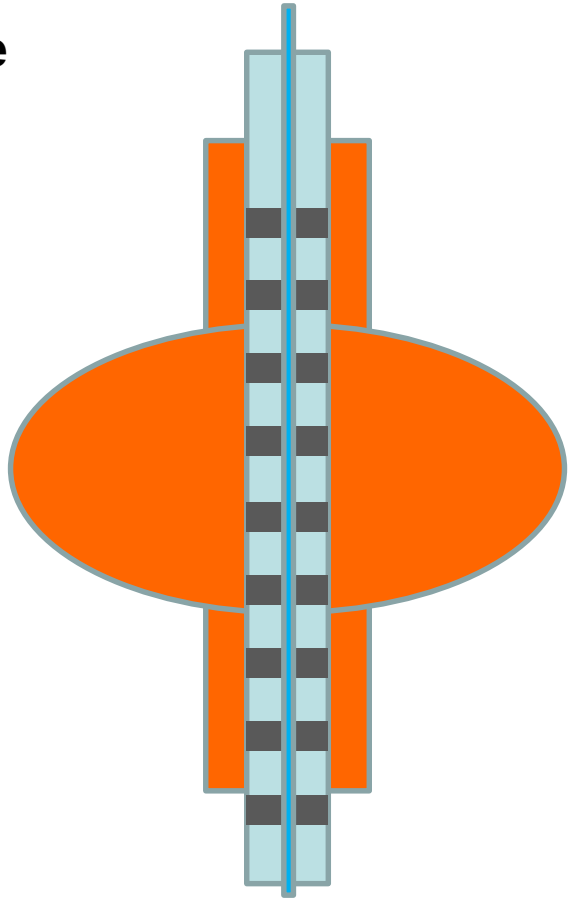
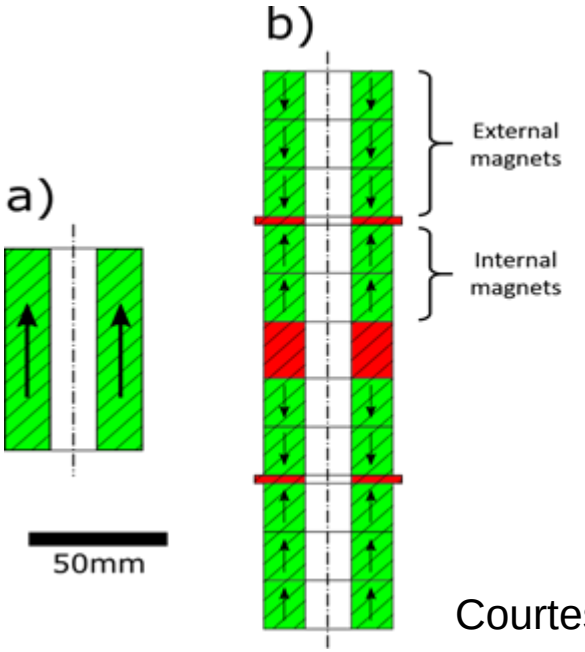
Task 9.2 Innovative SC Accelerating Cavity Prototype

→ Development of coating system for 1.3 GHz cavity..

- Design phase delayed but now in full swing.
- Planning for high automation integration.
- Unbalanced Magnetron.
- HiPIMS





Courtesy of Guillaume Rosaz

A few design highlights

- Cavity inside a Vacuum chamber
- Vertical Cavity
- Rotation of Cavity
- Magnetron movable inside Rod
- Cathode Air or Water cooled
- Radiant Heater

- Non-cylindrical cathode considered
  - High purity material possible
  - Wider range of material (Nb3Sn)
  - Movement more challenging