## A DArT test set up at CIEMAT

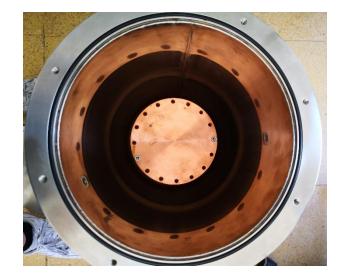
3-April-2019

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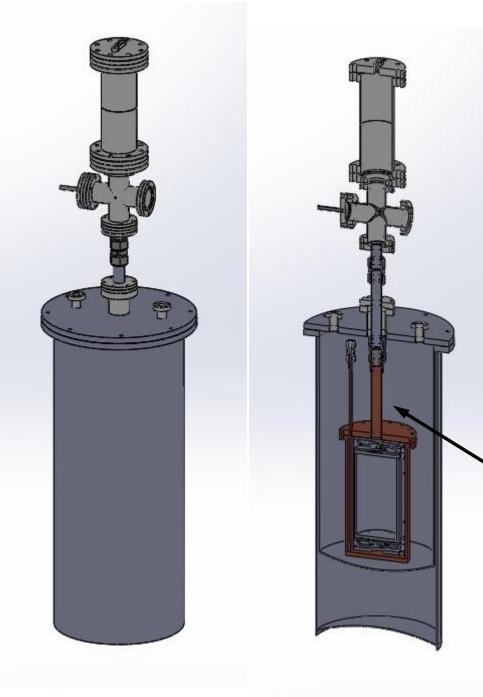
### Test of DArT at Ciemat

- We present a proposal in order to do DArT tests at Ciemat
- We have at CIEMAT a flanged cryostat ready to be used.
  - 240 mm diameter x 460 mm depth
  - 3 access in the flange: 1 CF40 + 2 CF16
- We need to do a small modification in the DArT integration design in order to made it compatible with the cryostat.









#### DArT test set up

D22 Sagana ferrule -

New CF40 connection

D22 Sagana ferrule ~

Recirculation pipe plugged

Shorter (150 mm) pipes



# Modifications of DArT integration design

New D22 Sagana ferrule

Shorter (150 mm) copper pipes



### Tests of DArT

- Vacuum
- Gas system
- Cryogenic
  - Filling DArT with LAr.
  - Emptying DArT
- Pulsed ligth source
- SiPM response

### Tests requirements

- LAr level sensor
  - Same as DArT
- Electronic for the level sensor
- LAr supply (Ranger of 180 liters)