This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.

Task 9.2 progress @ INFN

2nd iFAST annual meeting

Trieste 18/04/2023

Alessandro Salmaso

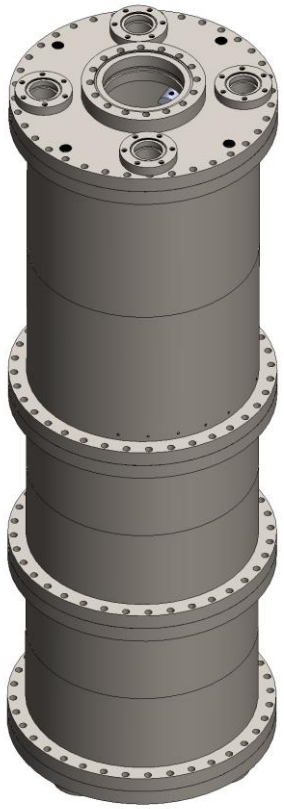
iFAST

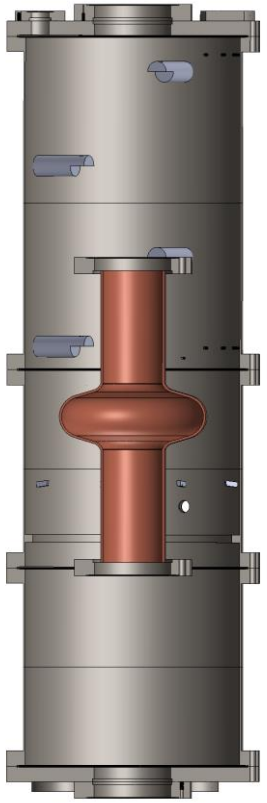
1.3 GHz coating system

- Started in April to refurbish the ISOLDE QWR coating system
- Pumping components and stand will be kept for the new system

1.3 GHz coating system

- Main chamber parts produced and ready to be assembled





1.3 GHz coating system

FEATURES

- «Hybrid» coating system
  - Rectangular magnetron & rotating cavity
  - Post magnetron configuration with Nb_3Sn cylindircal target produced via dipping

1.3 GHz coating system

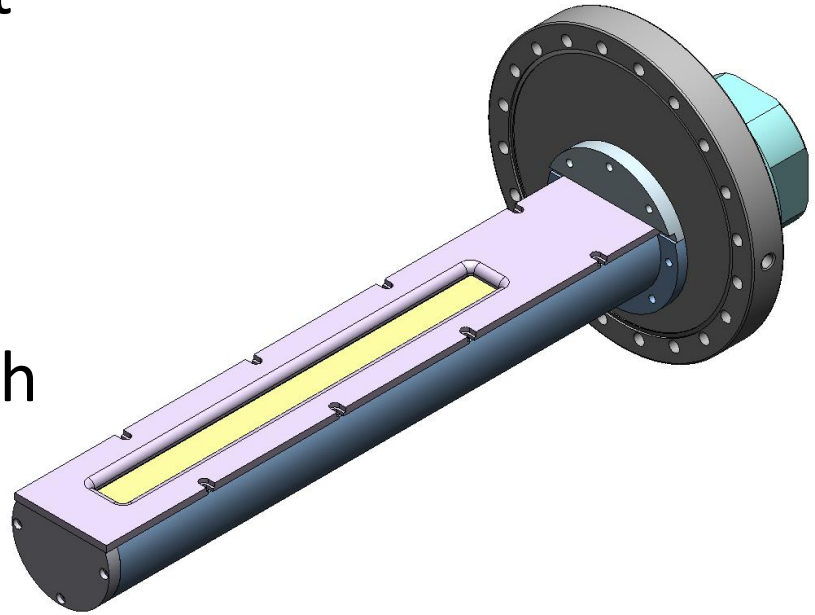
FEATURES

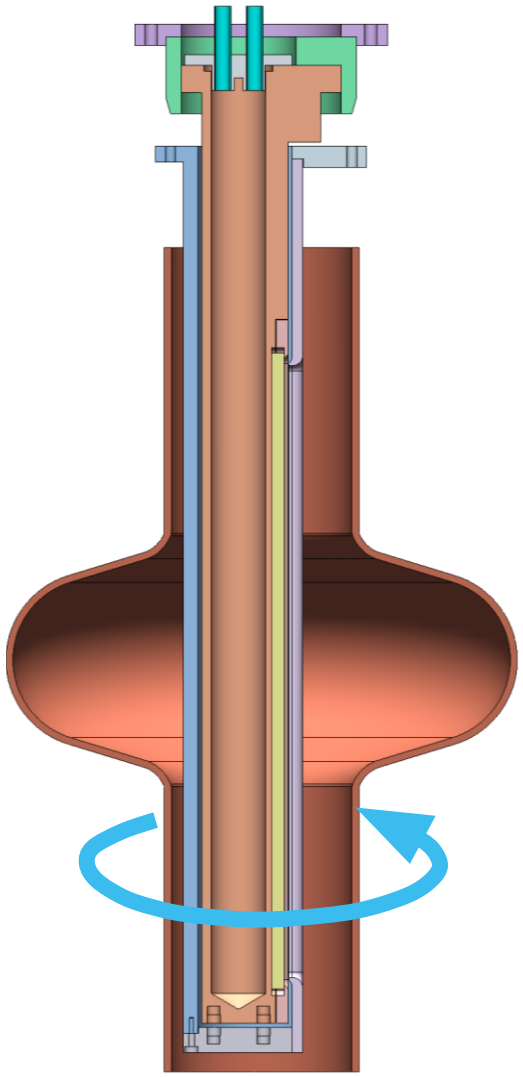
- Heating system to be defined

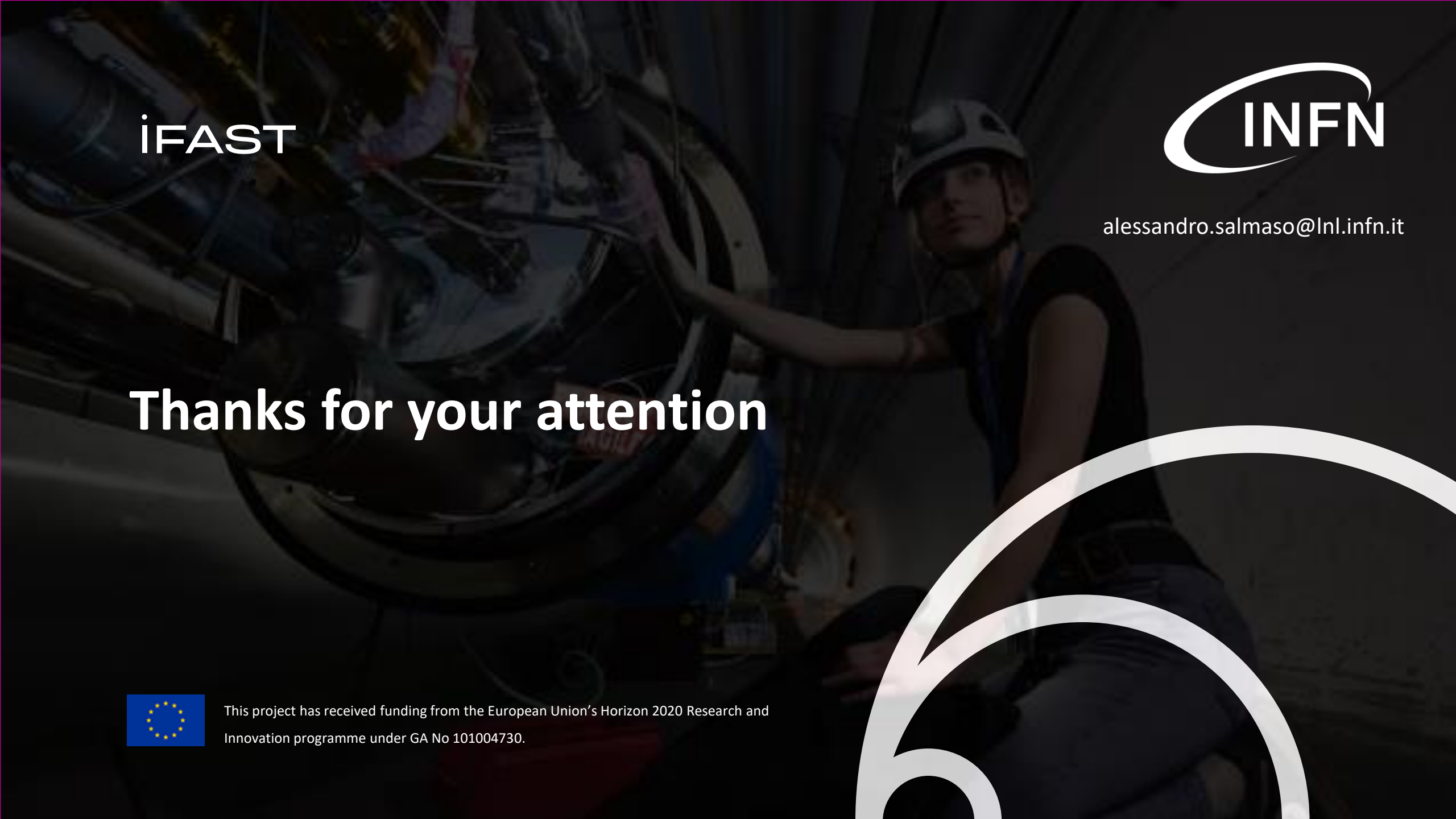
	Uniformity	Toughness	High T (>800°C)
IR lamps	✓	✗	✓
Resistive	✗	✓	? (≈600°C)

Rectangular magnetron

- Design still ongoing, based on existing project
- Limiting factor: cutoff diameter (78 mm)
- Goal for end of 2023: first runs on samples with mock-up cavity







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alessandro.salmaso@lnl.infn.it

Thanks for your attention

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