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WP9.2 Progress @

11th IFAST WP9 meeting
Daresbury, 18/01/2024

Cristian Pira

IFAST



Substrates Production and Polishing

On November sent to STFC:

- 6 GHz cavity X 1
- 1.3 GHz cavity X 1
- Cu Tubes for WP9.6 X 2

WP 9.2 Cavity Forming



- ▶ **New optimized die** produced by Piccoli
- ▶ Ready for final prototype substrates production
- ▶ Difficulties in procuring OFE copper sheets to produce substrates for final prototypes
 - ▶ *some OFE-Cu sheets are already in house, but it would be better to have more*
 - ▶ *Supplier found (MKE). Oscar Azzolini in charge of procurement*



New 1.3 GHz Die for Spinning produced by Piccoli

Ideas to speed up results

- Nb bulk substrates instead of Cu ones
(helps to prevent substrate issues in the first results)
 - QPR
 - 6 GHz cavities
 - 1.3 GHz cavities
- 1.3 GHz Cu substrates with flat flanges (waiting the welding cavities)
 - Is there any RF drawback to take in account?

Flat flanges (Indium sealing)

