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## Coupler HV bias studies on ESS elliptical cavities

*Wednesday, 22 May 2024 16:00 (2 hours)*

We study the effects of high voltage DC bias on the fundamental power couplers of the ESS elliptical SRF cavities. These tests were carried out at the TS2 facility, where cryomodule acceptance and characterization tests are carried out. We present the observed effects of positive and negative bias field on multipacting in the RF couplers, as well as the implications for operation in the ESS linac.

### Footnotes

### Funding Agency

### Paper preparation format

Word

### Region represented

Europe

**Primary author:** GOUDKET, Philippe (European Spallation Source ERIC)

**Co-authors:** MAIANO, Cecilia (European Spallation Source ERIC); MCKENZIE, Dana (European Spallation Source ERIC); PIERINI, Paolo (European Spallation Source ERIC)

**Presenter:** MAIANO, Cecilia (European Spallation Source ERIC)

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