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## **ESS elliptical cryomodules field emission campaign measurements**

*Wednesday, 10 May 2023 16:30 (2 hours)*

We describe here field emission measurements set-up, diagnostics tools used, analysis and results developed for ESS medium and high beta cryomodules tests . For high gradient, in particular, field emission can be the mechanism which limits cavities performances. A particular focus will be given to analysis tools developed to tackle potential materials activation, due to high energy photons emitted during cavities power ramp up. Measurements at ESS test stand in Lund (and data collection plus analysis developed) are a joint effort between ESS and in-kinds at CEA (Saclay): details, description and outcome is here described.

### **Funding Agency**

### **Footnotes**

### **I have read and accept the Privacy Policy Statement**

Yes

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