



Charge for ESS Spectroscopy STAP
April 2023.

- (1) Instrument teams: **Are the instrument teams moving ahead as expected and are there any notable instrumental areas or solutions that the instrument teams are overlooking ?**
- (2) The ^{10}B multigrad detectors remain foreseen for T-REX, however development is currently on-hold while a delivery plan is put in place. T-REX is foreseen to come online in 2027. **Is the timeline for T-REX consistent with community expectations and requirements or is there a need to accelerate progress ?**
- (3) **Are the solutions proposed for instrument monitors suitable?**
- (4) The instrument control, to data acquisition and data analysis chain is presented. **Is the STAP confident that the DMSC chain will enable both commissioning and first science on the spectroscopy instruments?**
- (5) The sample environments for instruments are presented. **Is the STAP confident that the sample environment availability, both within the instrument scope and within the sample environment group, will enable both commissioning and first science on the spectroscopy instruments?**
- (6) Polarisation analysis. The first 4 spectroscopy instruments have future proofed their engineering design to enable polarisation analysis. There is also some work on going to develop the details of polarisation and analysis components, although limited at this moment in time. **At which point would the STAP foresee further dedication to PA on the spectroscopy instruments?**
- (7) First science is the period after instrument commissioning and before user operation. The instruments will be available to perform experiments that will show case the various capabilities. **What would the STAP vision for first science be in terms of collaboration between instruments groups and friendly users? How do we determine who performs the first science experiments?**
- (8) **What is the role of the test beamline for first science?**
- (9) **There will shortly be a call for the next 7 instruments (15-22). An obvious current gap is a spin-echo instrument, what further instruments should we focus on?**