



Diffraction STAP update

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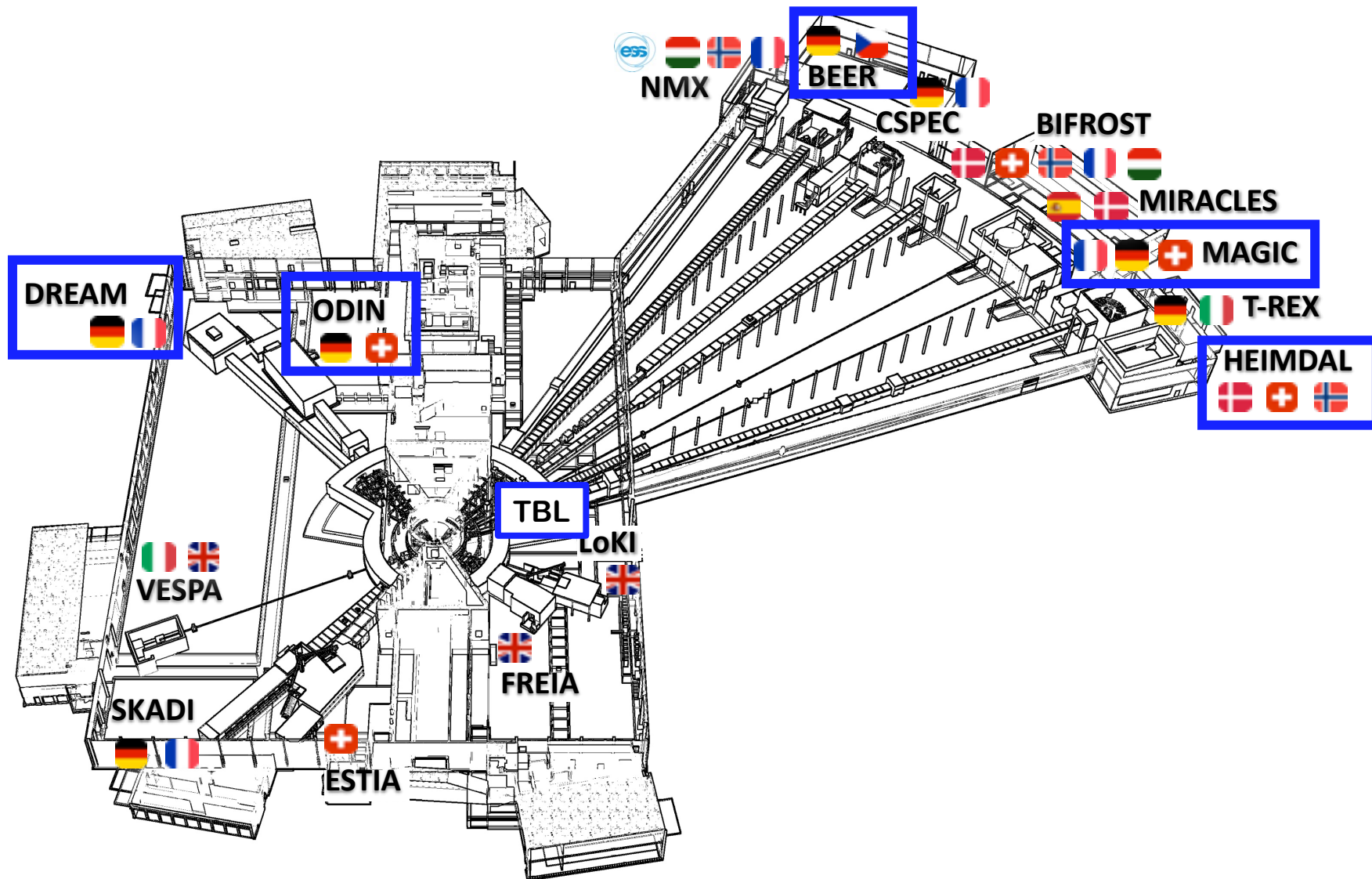
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ERIC

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- Reorganization of the Science Directorate: Diffraction & Imaging (M. Feygenson), Spectroscopy (P. Deen) and LSS (A. Jackson)
- All scientists have moved to Science Directorate, engineers are still with NSS
- Instrument operational engineers (IOEs) will be placed in divisions (3 years contracts)
- Hiring of new instrument scientist for DREAM will start soon
- Hiring for MAGiC instrument scientist & engineer is ongoing
- In-kind positions for DREAM & BEER are under discussion with Uppsala University
- First science workshop for DREAM has moved to 2025
- Division heads are in discussion with NSS about TG5 requirements (STAP comment)

Neutron Science Instruments at ESS

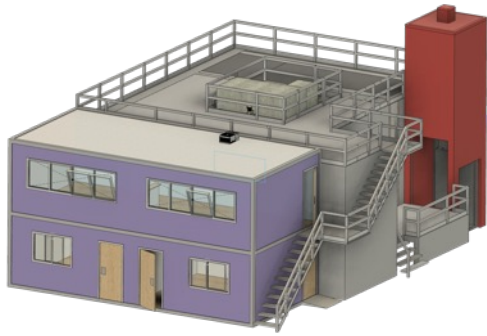


Diffraction & Imaging at ESS



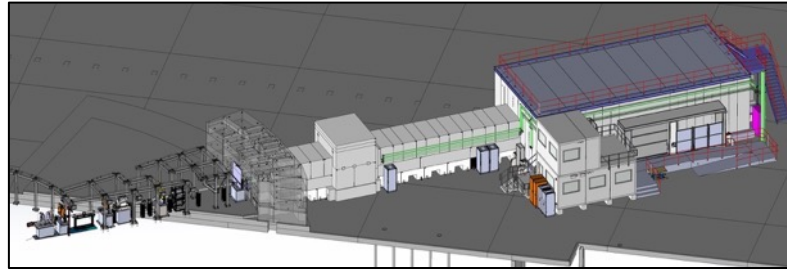
MAGiC

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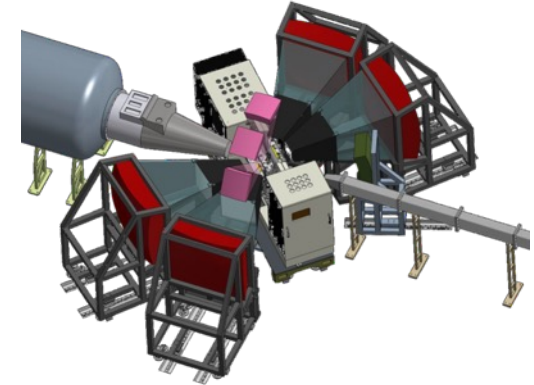
ODIN

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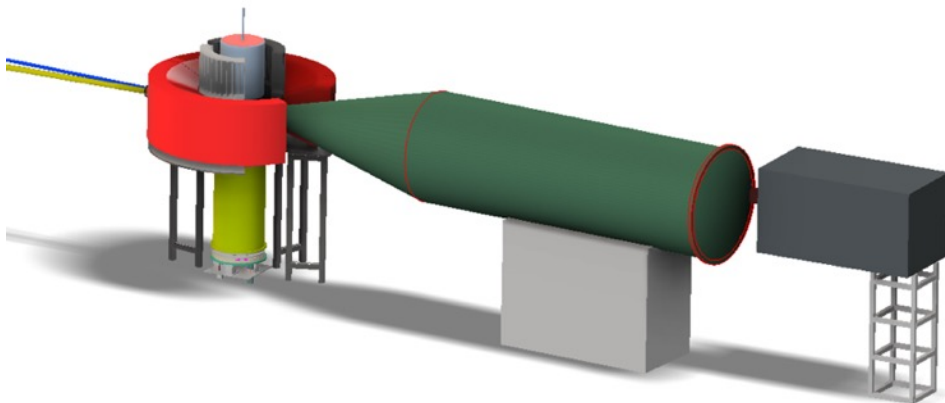
BEER

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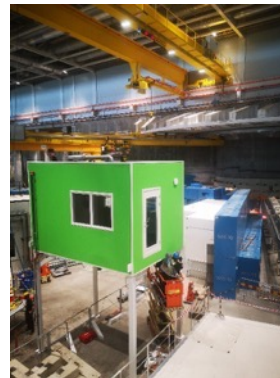
HEIMDAL

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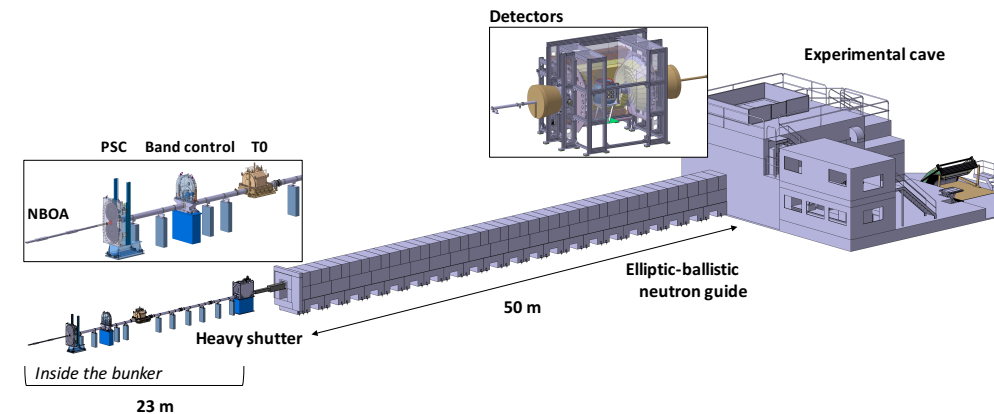
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STAP recommendations from the last meeting



2. ESS is part of a European neutron facilities consortium proposal, currently under preparation, to build two magnets that can travel between facilities. STAP strongly supports this proposal and notes that the pulsed magnet could be used at the proposed DREAM second sample position to provide a world-leading high-field neutron diffraction instrument for modest upgrade cost. R

ESS has been an active participant in preparation of the BOBINE proposal for EC INFRATECH funding, which was submitted in March, with results expected in July/August. The pulsed magnet will require significant infrastructure investment (up to 2000 litres of liquid nitrogen per day), so the strong endorsement of the STAP is appreciated, along with the suggestion to use the second sample position.

3. It will be important to have several people at ESS trained in use of Paris-Edinburgh cells for First Science (FS) and Start of User Programme (SoUP) experiments on DREAM and other instruments. R

MF, FP exchange with DP with common beamtime at SNS

9. Staff risks to the MAGIC project timeline are noted by STAP. ESS will need to monitor this aspect.

ESS follows up to this very actively. Scheduling workshop.

10. Only 75% of the MAGIC wide angle polarisation analyser is affordable according to a recent costing. STAP strongly endorses efforts to find funds for the remaining 25% to as the highest priority for MAGIC.

11. The HEIMDAL detector contract has been awarded to CDT. This currently covers 1.0 sr, an upgrade to 1.3 sr is strongly encouraged by STAP.

acknowledged, to be emphasized during SAC

14. STAP and the instrument team members found the First Science discussion for DREAM to be a useful exercise. ESS might wish to recommend a similar process for other instruments, to start ~2 years before HC.

acknowledged

15. DREAM FS focus which should be on high resolution PND to fulfil the science case.

acknowledged

16. ESS should consider some general issues for HC/FS. How much beamtime will be available? Will external 'friendly' users receive travel support, accommodation, etc? Access arrangements for external users (radioprotection, etc)? Agreements on collaboration and publications? R

acknowledged

17. STAP proposes to conduct a FS exercise for MAGIC at the October 2024 meeting.