







Instrument Update



6th ESS Instruments Collaboration Board Meeting 22 June 2016 | Andreas Wischnewski Jülich Centre for Neutron Science



SKADI: SANS @ ESS







Updates since last ICB

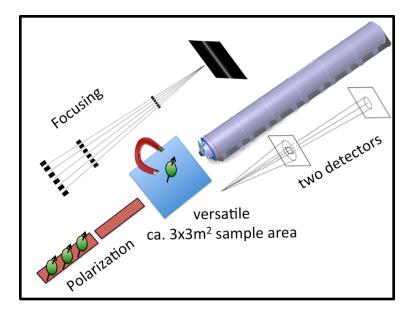
- Official start of Phase 1
- STAP Meeting (10.05.2016)
- Scope Setting Meeting (20.06.2016)
- Date set for TG2: 29.09.2016

STAP

- Pleased by robust design decisions
- Good complementarity SKADI/Loki
- Timescale is ambitious
- Requested funding reasonable
 - Each reduction leads to sore backset in scientific performance

Technical

- Change of beamport to E5
- Removal of all active components from bunker area
- Improved chopper setup



Instrument Team

Sebastian Jaksch, FZ Jülich, Germany Henrich Frielinghaus, FZ Jülich, Germany Romuald Hanslik, FZ Jülich, Germany Jacues Jestin, LLB, France Sylvain Désert, LLB, France

June 21, 2016 2



DREAM Diffraction Resolved by Energy and Angle Measurements







CORE TEAM

Lead scientist: Werner Schweika

Instrument scientist : Mikhail Feygenson

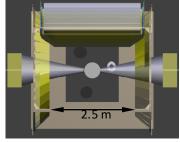
Lead engineers: Peter Harbott, Andreas Poque

PROGRESS SINCE LAST ICB

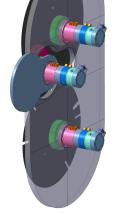
- Beam port allocation change from port S4 to S3
- Concept of Operation sent STAP members
- Sample environment was defined with LLB
- Detector specification and costing done
- Report on T0 chopper concept given to ESS

CURRENT ISSUES

Calculations for shielding and T0 choppers from ESS are delayed



Detector layout



Chopper systems

STAP meeting June 22,23

Scope-setting: 2016-08-09

Tollgate 2: End of 2016





T-REX





CORE TEAM

Lead scientist: Nicolò Violini (FZJ)

Lead engineer: Hans Kämmerling (ZEA-1)

Partner: A. Orecchini (Perugia)

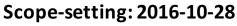
PROGRESS SINCE LAST ICB

- p1 funded
- dedicated WPs for detectors and shielding calc.
- neutron optics review (go for TOP moderator)
- integration problems and some solutions
- cost analysis component by component

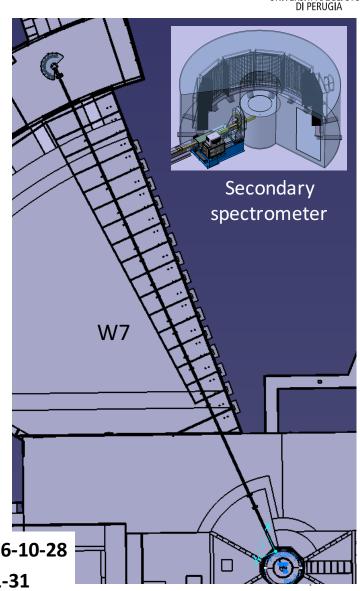
CURRENT ISSUES

role of the ESS in the shielding design & calculations

detectors cost is high/uncertain



Tollgate 2: 2017-01-31

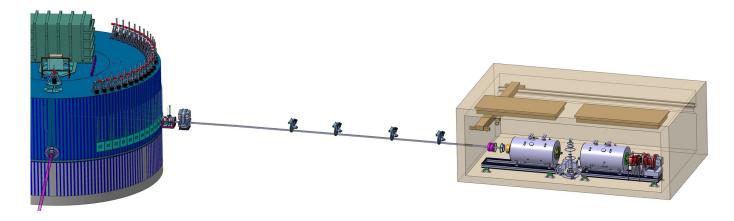






CONSENSE: Proposal for a High resolution NSE for ESS





TEAM: S. Pasini, T. Kozielewski, M. Monkenbusch (FZ Jülich)

R. Georgii, C. Pfleiderer, P. Böni (TU München)

DESIGN PHASE: Basic design study of a hybrid instrument (NSE + NRSE) pre-financed by TUM and FZJ

STAP MEETING September 16; decision on acceptance 2017

BUDGET: 30% TUM, 70% FZJ