



EUROPEAN
SPALLATION
SOURCE

Diffraction instrument class meeting

IKON 18
Feb 25 2020

Agenda 9:00-10:30

General topics, Werner Schweika

Instrument updates:

DREAM, Mikhail Feygenson

MAGIC, Xavier Fabreges

HEIMDAL, Dan Mannix

Special topics

PSS (example from DREAM), Mikhail Feygenson

Heavy shutter (MAGIC), Xavier Fabreges

simulations, Tsitohaina Randriamalala

Cave (HEIMDAL), Dan Mannix

STAP meeting April 24, 2020

VC 1pm-4pm at ESS

Instrument scientists are asked to join in person

- updates
- suggestions

Oct STAP report

- excellent progress and high quality of instrument work
- First science topics, choose dedicated STAP members 3years before hot Comm.

DREAM energy materials (e.g. solid electrolytes, battery materials)
magnetic structures (variable T, perhaps small samples)
MOF/complex structures

- Software - need properly reduced data for refinement

STAP meeting Oct 19-21, 2020, combined with SAC

Status of detectors

DREAM

prototype endcap

mantle & readout electronic

ESS backend electronics & firmware

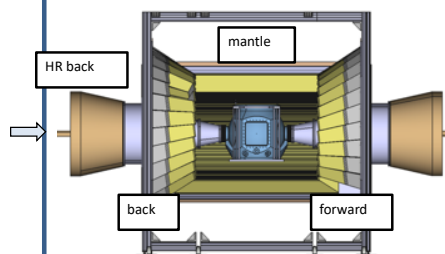
procurement for serial production
and high resolution detector
final deliveries

July 2019 at V20. Berlin

May 2020 at TRIGA Mainz

May 2020

June 2021 - April 2022



MAGIC

procurement

small detector prototype FAT

final delivery

large detector prototype FAT

final delivery

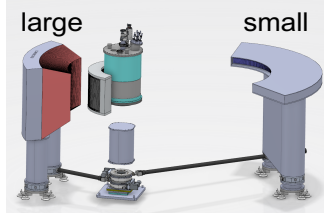
July 2019

Aug 2020

Nov 2021

Dec 2020

Nov 2021



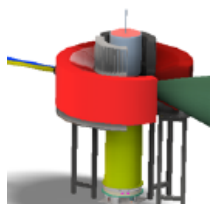
HEIMDAL start of CAD design

– similar to large detector of MAGIC

final delivery

early 2021

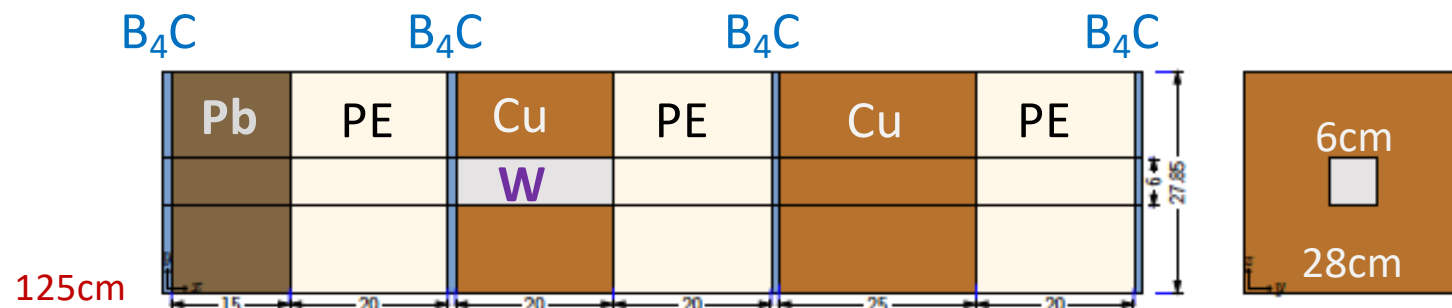
end of 2022 / early 2023



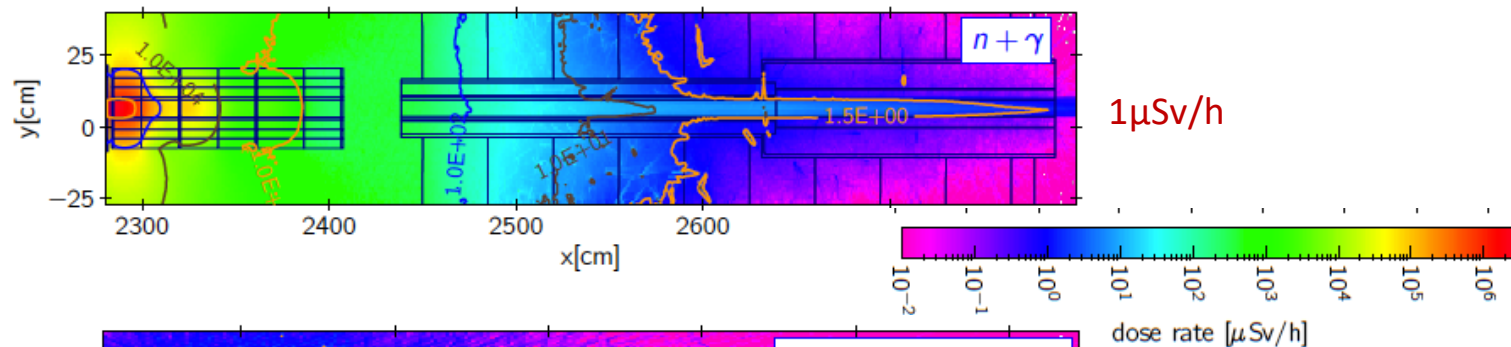
DREAM heavy shutter straight beam line

results from Tsitohaina H. Randriamalala, FZ Jülich

Geometry



Attenuation



Activation

10y @5MW

