

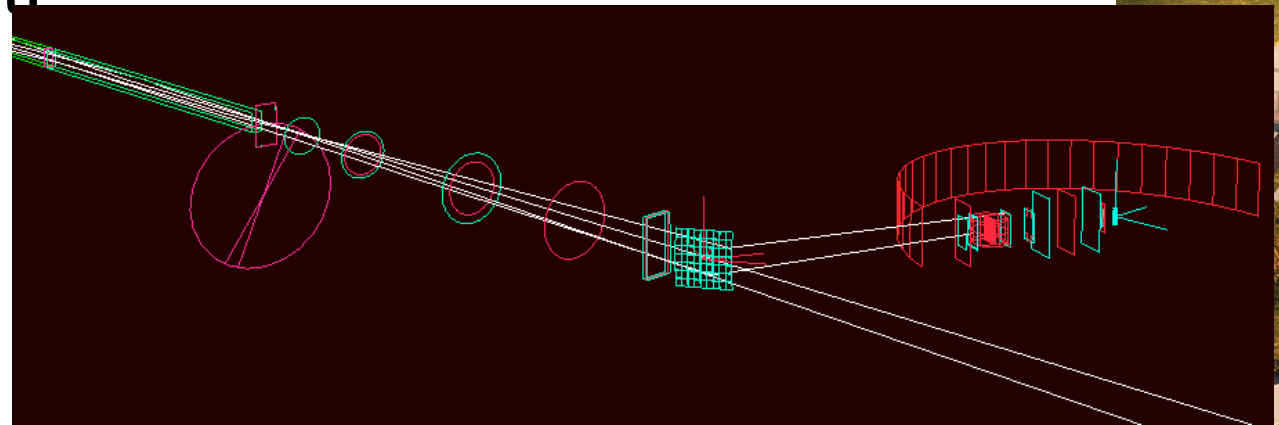
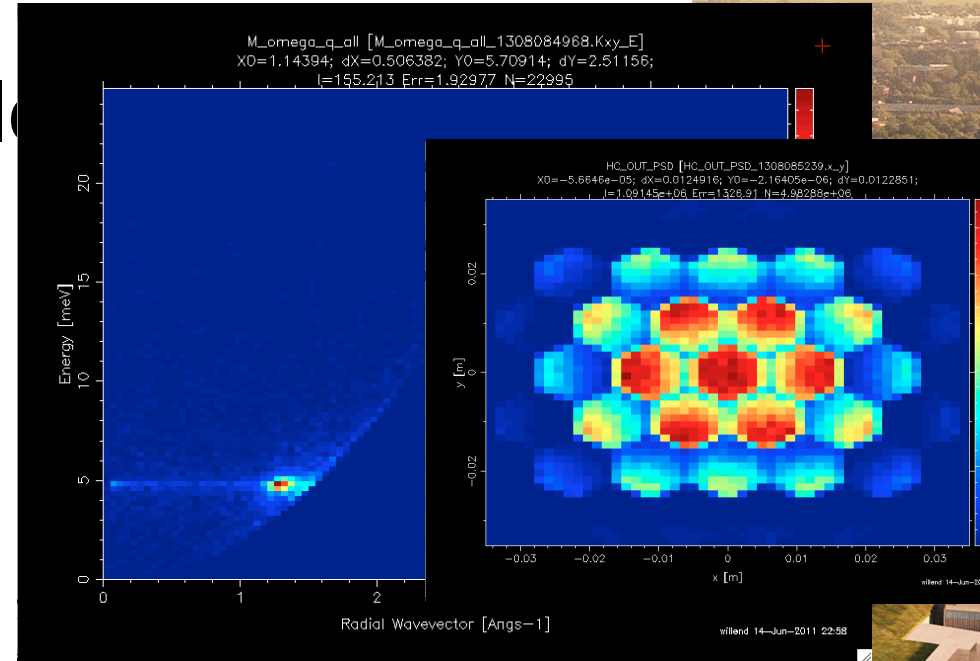
# Overview of McStas example instruments

- So far we did not spend a lot of time on the Neutron Site menu in mcgui. Many relevant examples are available there, serving as inspiration for new users.



# 7 TOF spectrometers:

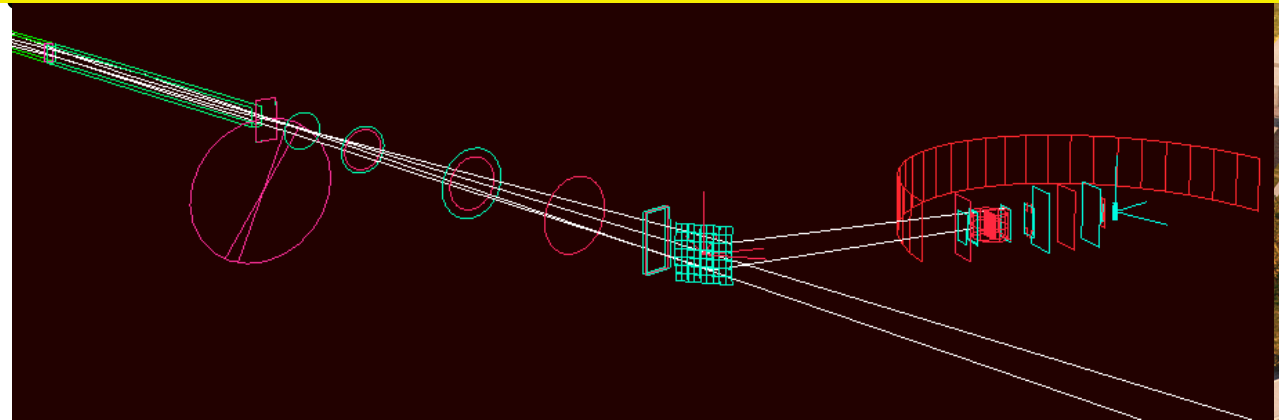
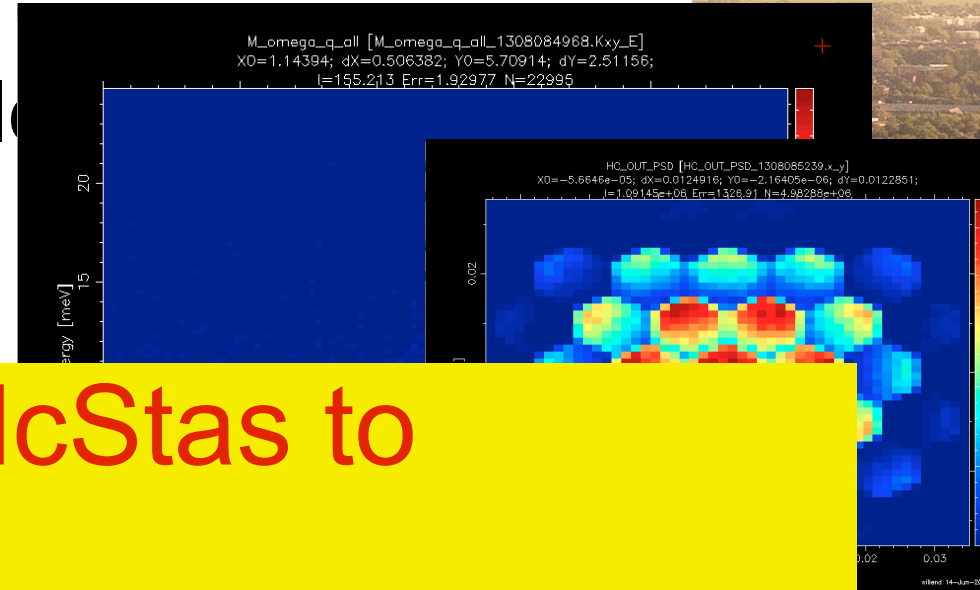
- ESS\_IN5\_reprate.instr
- ILL\_BRISP.instr (Small-angle)
- ILL\_H15\_IN6.instr
- ILL\_H16\_IN5.instr
- ISIS\_Hetfull.instr
- PSI\_Focus.instr
- templateTOF.instr



# 7 TOF spectrometers:

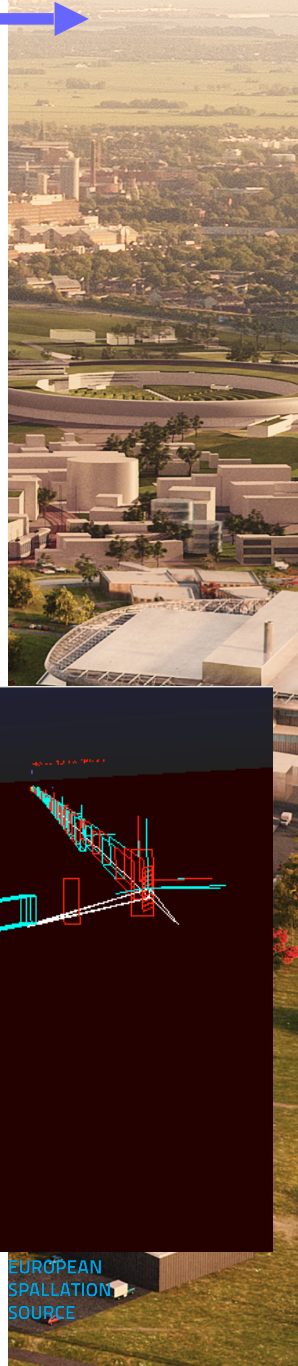
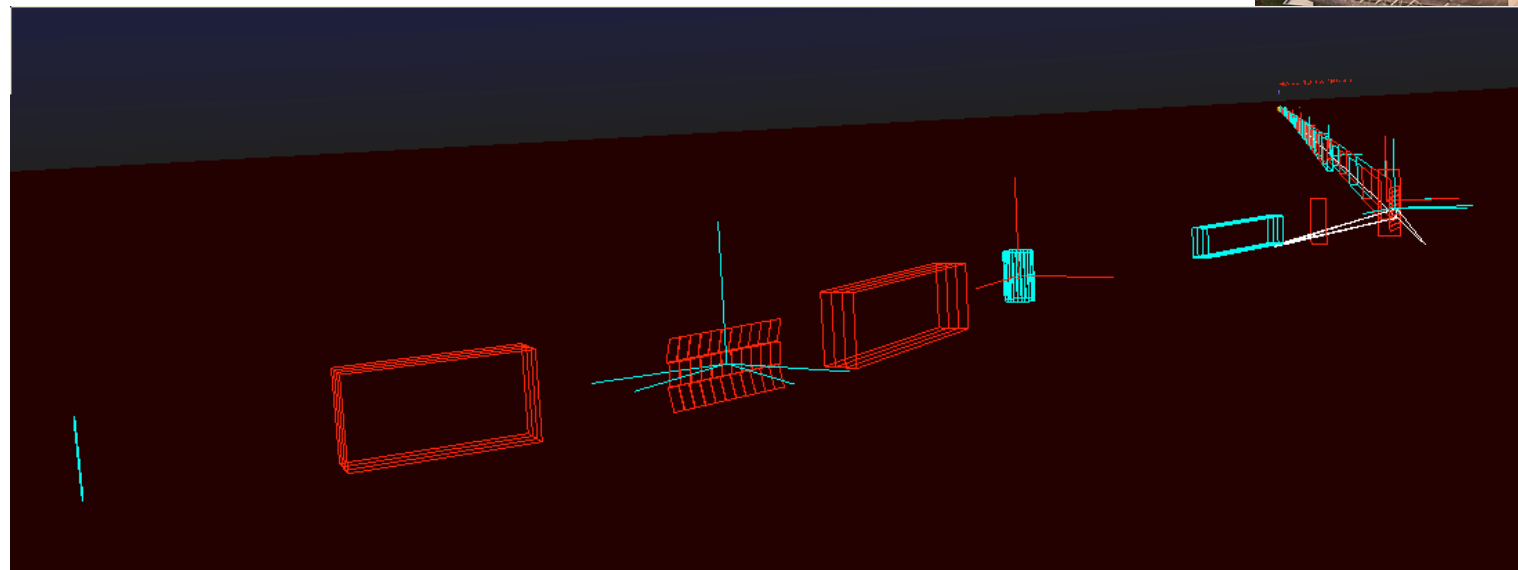
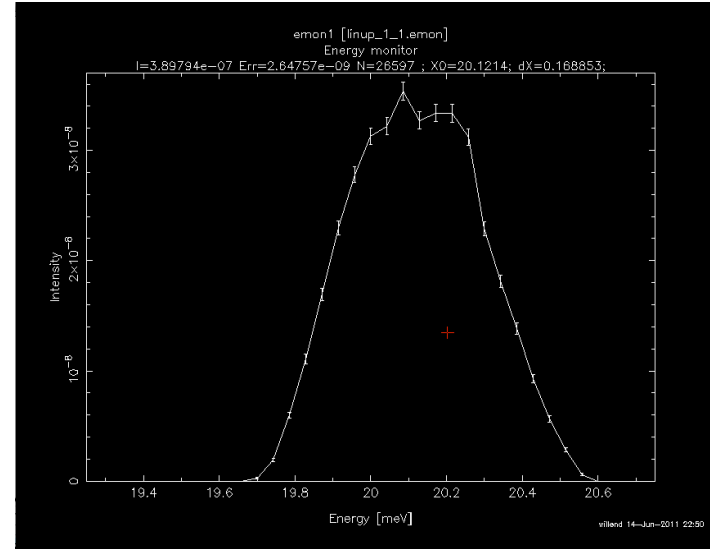
- ESS\_IN5\_reprate.instr
- ILL\_BRISP.instr (Small-angle)
- ILL\_H15\_IN6.instr
- ILL\_H16\_IN5.instr

Should we rename McStas to  
McStof ? :)



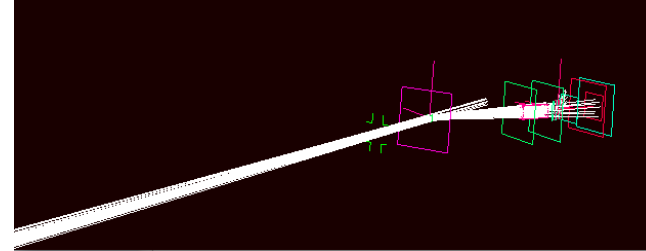
# 5 TAS (linup-? are all Risø TAS 1)

- | ILL\_H142\_IN12.instr
- | ILL\_H25\_IN22.instr
- | h8\_test.instr
- | templateTAS.instr
- | linup-1.instr
- | linup-2.instr
- | linup-3.instr
- | linup-4.instr
- | linup-5.instr
- | linup-6.instr
- | linup-7.instr

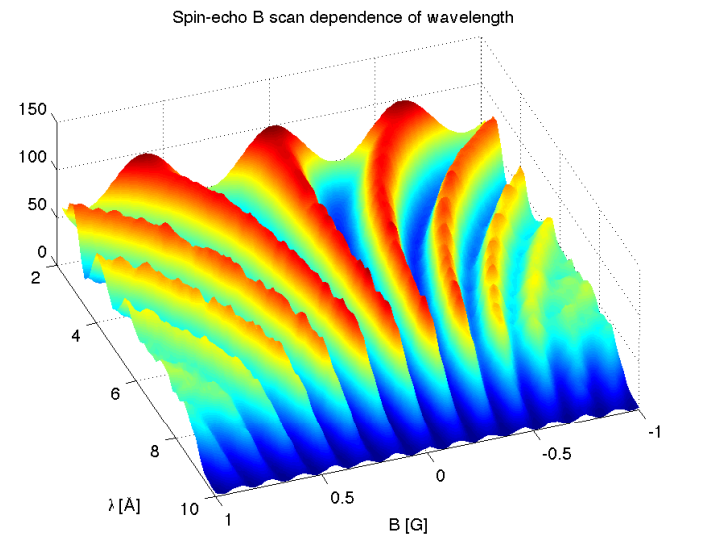
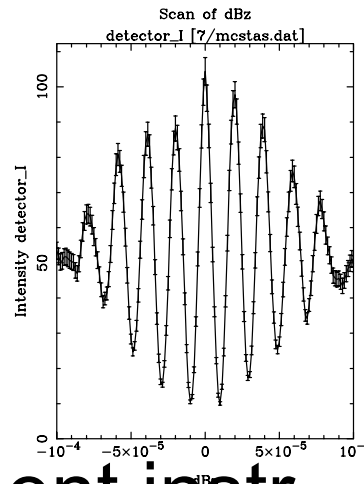


# 1 Hybrid spectrometer + 1 Spin-echo

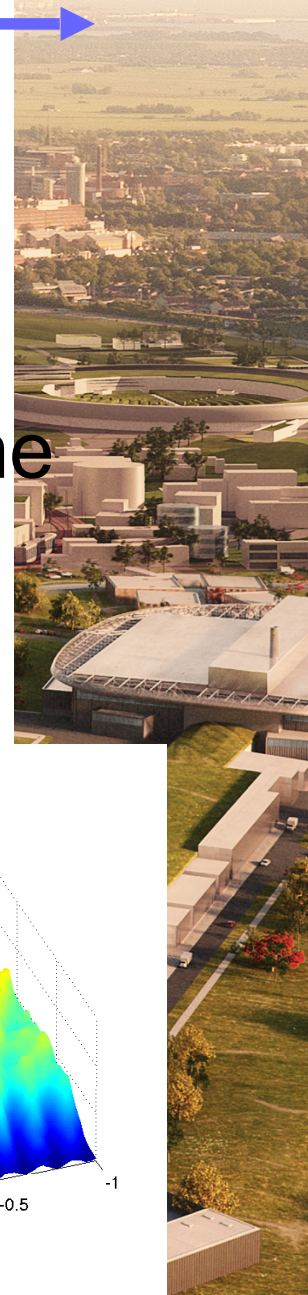
- 1 "ToF-TAS" spectrometer:  
prisma2.instr



- 1 Spin-echo (two different implementations, same instr):  
SE\_example.instr  
SE\_example2.instr

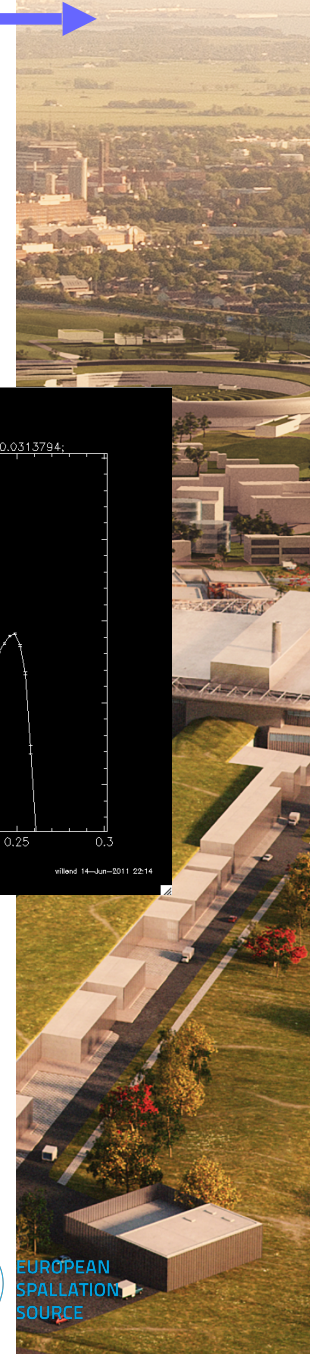
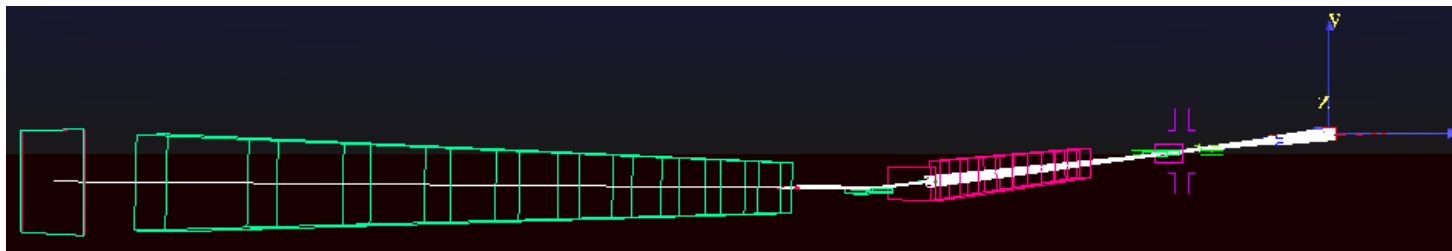
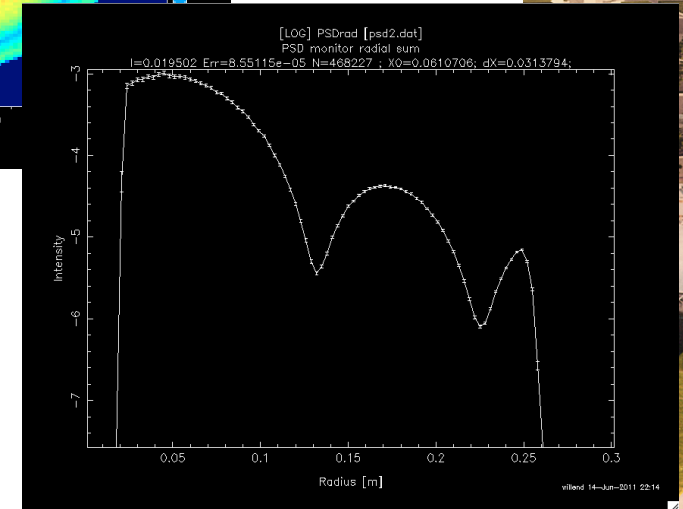
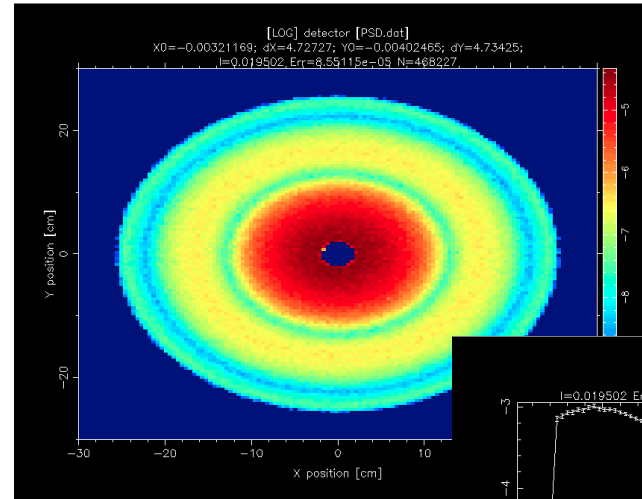


- SEMSANS\_instrument.instr



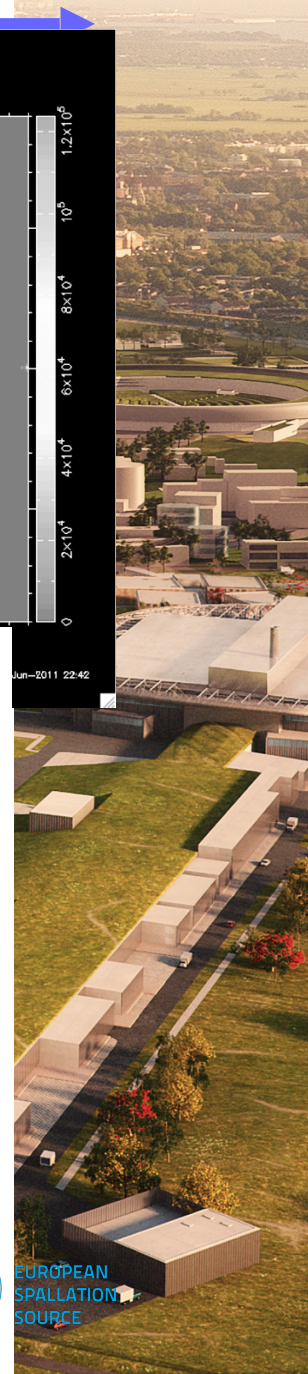
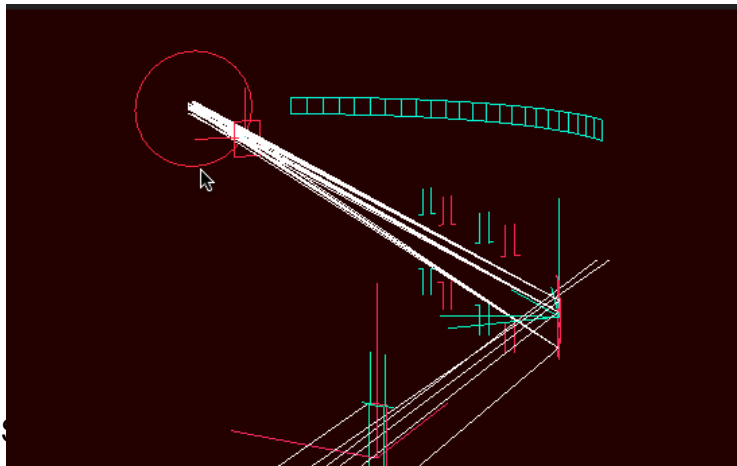
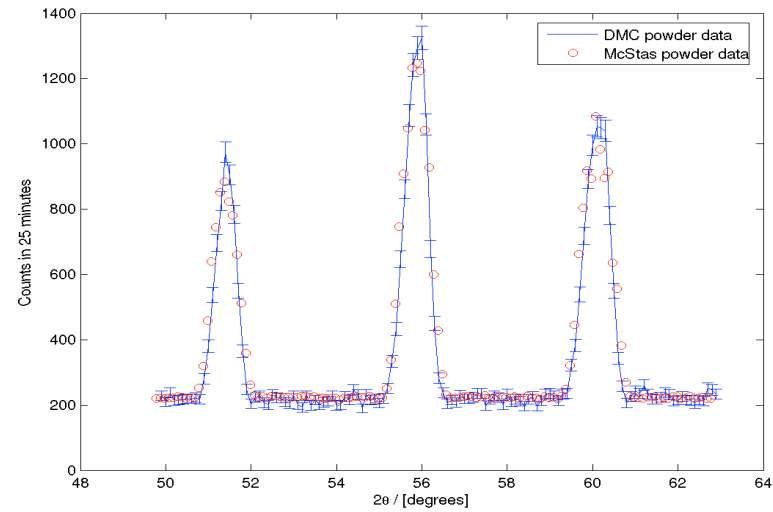
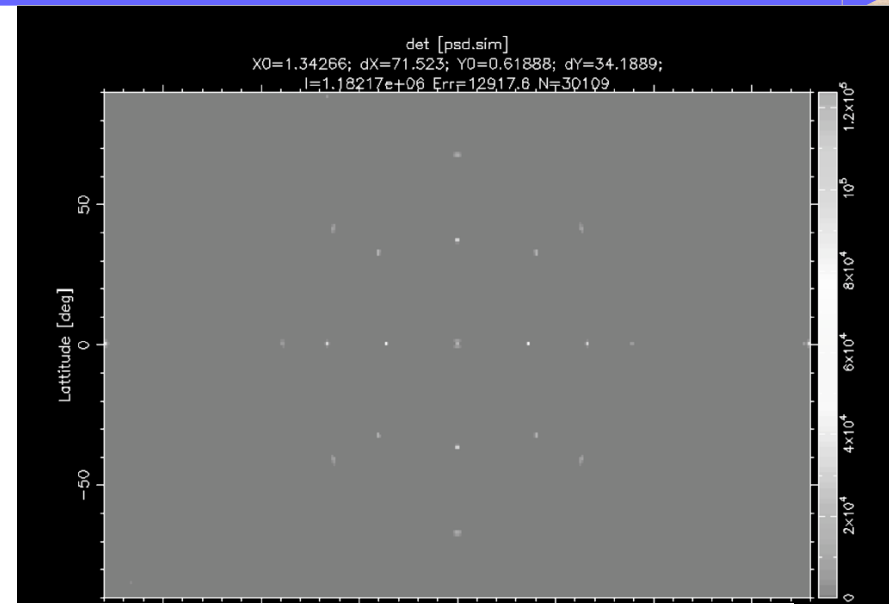
# Large scale structures

- | SANS:
  - | FZJ\_KWS2\_Lens.instr
  - | FZJ\_SANS\_KWS2\_AnySample.instr
  - | FZJ\_SANS\_KWS2\_DebyeS.instr
  - | FZJ\_SANS\_KWS2\_Guinier.instr
  - | FZJ\_SANS\_KWS2\_NoSample.instr
  - | templateSANS.instr
- | 2Reflectometers:
  - | ISIS\_CRISP.instr (Not an accurate model)
  - | Reflectometer.instr (~ FREIA @ ESS)



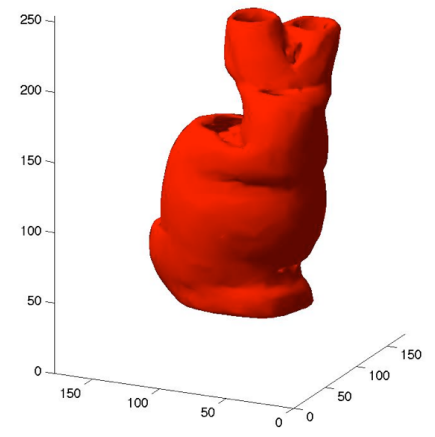
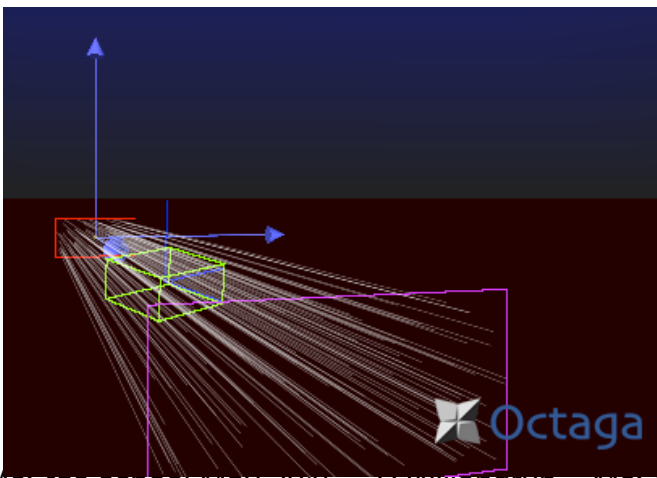
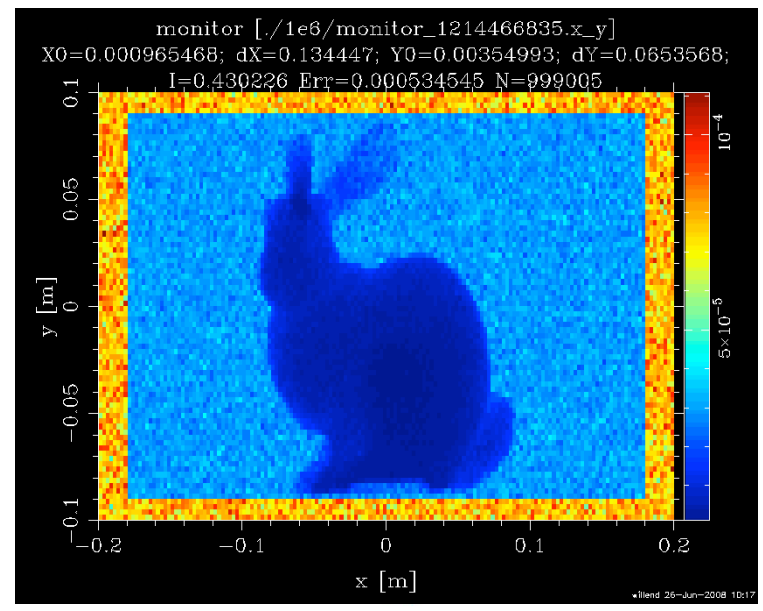
# Diffractometers

- ILL\_D1A.instr
- PSI\_DMC.instr
- templateDIFF.instr
- templateLaue.instr
- ISIS\_GEM.instr



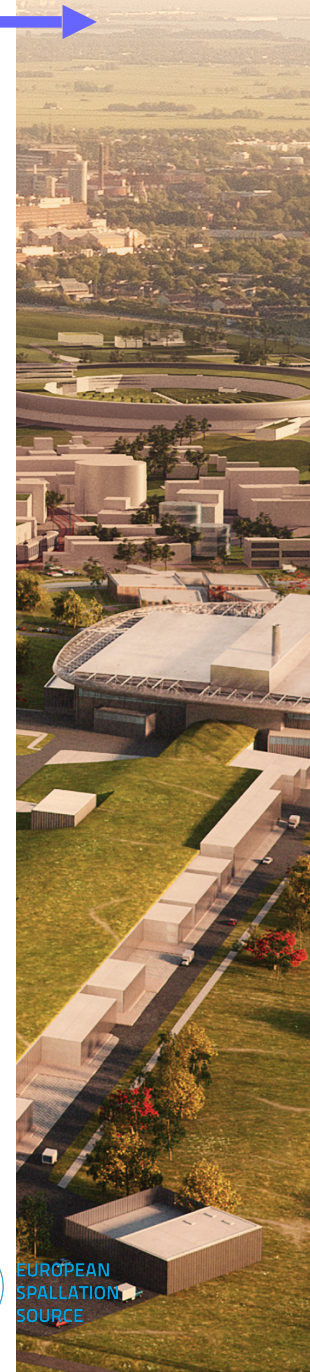
# Imaging

- Tomography.instr
- comes with simple filtered backprojection reconstruction (Matlab)



# Histogrammer.instr

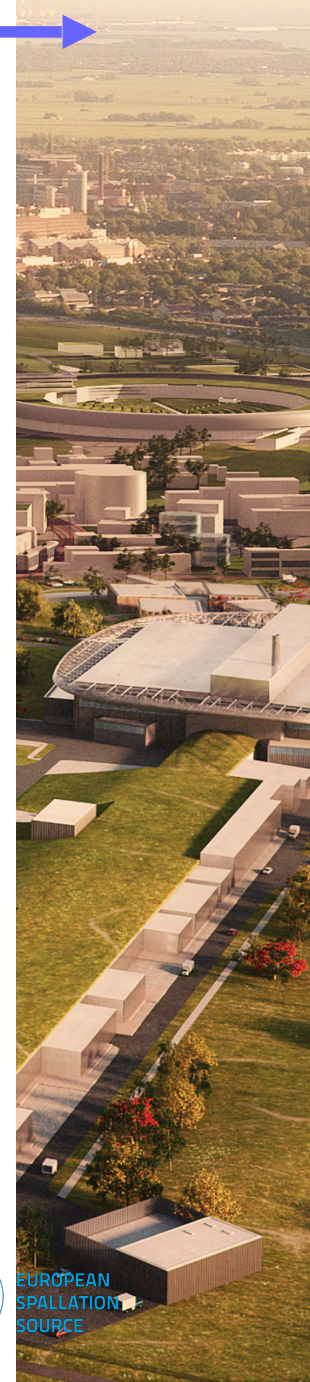
- | Histogrammer.instr
- | - takes many kinds of supported 'event input files', e.g. from Vitess. String parameter used as Monitor\_nD options, can make all types of histograms from the event file.
- | (I.e. conversion tool for plotting of data)



# Feedback and help

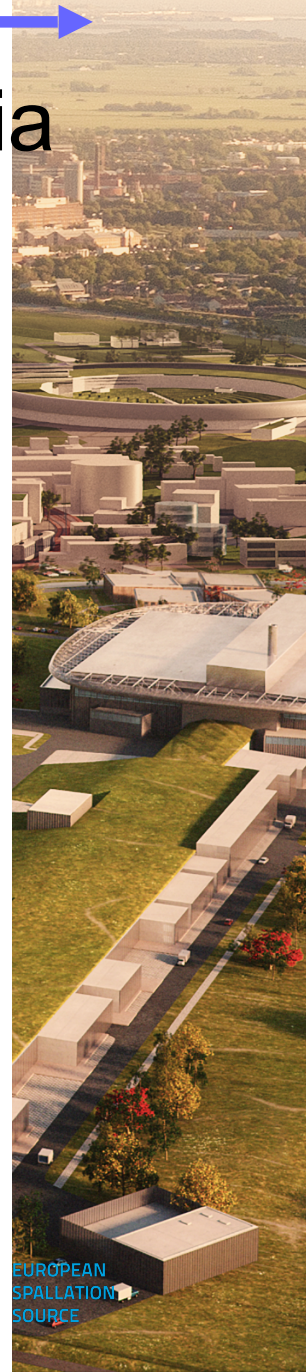
Please:

- - Enroll to [mcstas-users@mcstas.org](mailto:mcstas-users@mcstas.org)
- - Post your question there or to [mcstas-support@mcstas.org](mailto:mcstas-support@mcstas.org)
- - There is no such thing as a stupid question!
- - Like us on Facebook? ;)
  
- - “McStas days @ ESS” 2016:
  - Tuesday 10 May 2016
  - Thursday 9 June 2016
  - Thursday 11 August 2016
  - Thursday 8 September 2016
  - Thursday 13 October 2016
  - Thursday 10 November 2016
  - Thursday 8 December 2016
  
- Another McStas school @ NOBUGS Copenhagen, October 2016?



# The rest of the afternoon

- A) Make an excursion to the examples (e.g. via mcdoc) and play with relevant instrument(s)
- B) Dig out your own “project” if you started it already and we can discuss it / work on it...



# Rough plan for tomorrow

- “Advanced McStas topics”
  - i.e. advanced instrument grammar and other useful “hidden gems”
- (Writing components yourself)
- Interoperability and interfaces with other codes
  - McStas-MCNP (and MCPL)
  - McStas-Mantid
  - McStas-Sasview

