Instructors

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Preliminary work

Installation

- Install McStas 2.2a from http://mcstas.org/
- We also recommend to install a VRML viewer such as **view3dscene** or **InstantPlayer**
- An alternative solution is to burn a DVD or run a virtual machine from our ISO at http://mcstas.org/ubuntu/

Getting started

- Perform the SANS tutorial available here: https://github.com/McStasMcXtrace/McCode/wiki/McStas-tutorial%3A-simplified-SANS-instrument
- **Optionally** up to task 5.6 in http://mcstas.org/documentation/tutorial/

Day 1 – Monday Feb 15th 2016

9:00 – 10:30	**Welcome** **1 - Introduction to McStas** Installation help (optional) Forming groups of 2 Guided hands-on session (participants repeat the demo)	FC PW PW
10:30 - 11:00	Coffee break	
11:00 - 12:30	**2. Sources and monitors**	ER
12:30 - 14:00	Lunch	
14:00 - 15:30	**3. Guides** Linear guide Curved guide Ballistic guide	CK
15:30 - 16:00	Coffee break	
16:00 - 17:30	**4. Capture flux, guide losses** Capture flux estimates Guide losses	EF

Day 2 – Tuesday Feb 16th 2016

9:00 – 10:30	**5. Monochromators** Monochromator_flat / Monochromator_curved Single_crystal	PW
10:30 - 11:00	Coffee break	
11:00 - 12:30	**6. Stationary beam 'tailoring'** Slits Collimators	ER
12:30 - 14:00	Lunch	
14:00 - 15:30	**7. Moving optics** Velocity selector Disk chopper Fermi chopper	CK
15:30 - 16:00	Coffee break	
16:00 - 17:30	**8. Detectors** Gas detectors CCD scintillators	EF

Day 3 – Wednesday Feb 17th 2016

9:00 – 10:30	**9. Samples** Incoherent PowderN Single_crystal	 ER PW PW
10:30 - 11:00	Coffee break	
11:00 - 12:30	**9. Samples, cont'd** Isotropic_Sqw SANS	 EF CK
12:30 - 14:00	Lunch	
14:00 - 15:30	**10. Advanced language features** EXTEND, JUMP, COPY, GROUP, … Example: Estimating background from mechanics	PW
15:30 - 16:00	Coffee break	
16:00 - 17:30	**11. Sample environments** Concentric geometries	EF

Day 4 – Thursday Feb 18th 2016

Final planning for this day depends on feedback/discussion of interests of participants.
The timing may be changed during the course.

9:00 – 10:30	**12. Complete instruments for reactors** Diffractometer SANS	 EF
10:30 - 11:00	Coffee break	
11:00 - 12:30	**12. Complete instruments for reactors** Radiography / imaging Laue diffractometer	 EF
12:30 - 14:00	Lunch	
14:00 - 15:30	**13. A tour of the example instrument library - Instructor: PW** with selected highlights	PW
15:30 - 16:00	Coffee break	
16:00 - 17:30	**14. Open session : let's show you what you need** You have requests, we show you how to solve it	All

Day 5 – Friday Feb 19th 2016

Probably form small groups and work to answer requests. Any unexpected delay from Days 1-4 will go there.