

# ake moderator kick- eeting



EUROPE  
SPALLAT  
SOURCE

Ken Andersen: Welcome, news, work plan, timescale

Feri Mezei: the pancake moderator idea

12:00 lunch

Alan Takibayev: current neutronics work on pancake moderator

Werner Schweika: the bispectral powder diffractometer guide

Mads Bertelsen: the guide\_bot simulation tool

14:30 coffee

Feri Mezei: guide alignment issues

Ken & Feri: wrap-up & summary of actions

16:00 end

## 3 instruments recommended for construction

- LOKI broadband SANS
- ODIN multi-purpose imaging
- Macromolecular crystallography

## Decision to stay with light shutters

- Enhanced to maximize attenuation with proton beam on
- Revisit beamport installation engineering

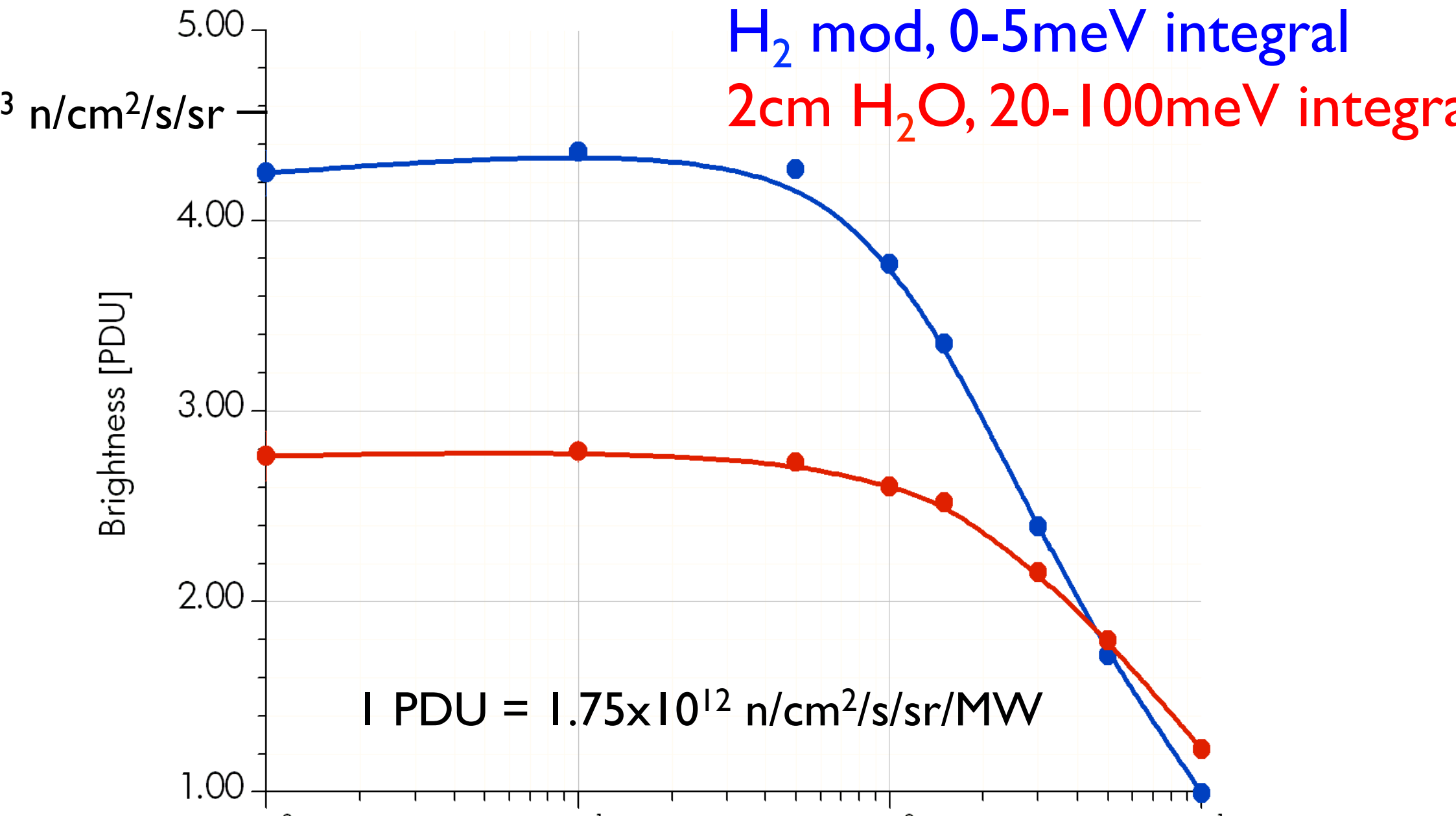
## Preparing for 2013 round of instrument proposals

- 16 proposals expected 30/10
- Review process November-April
- SAC recommendations May 2014

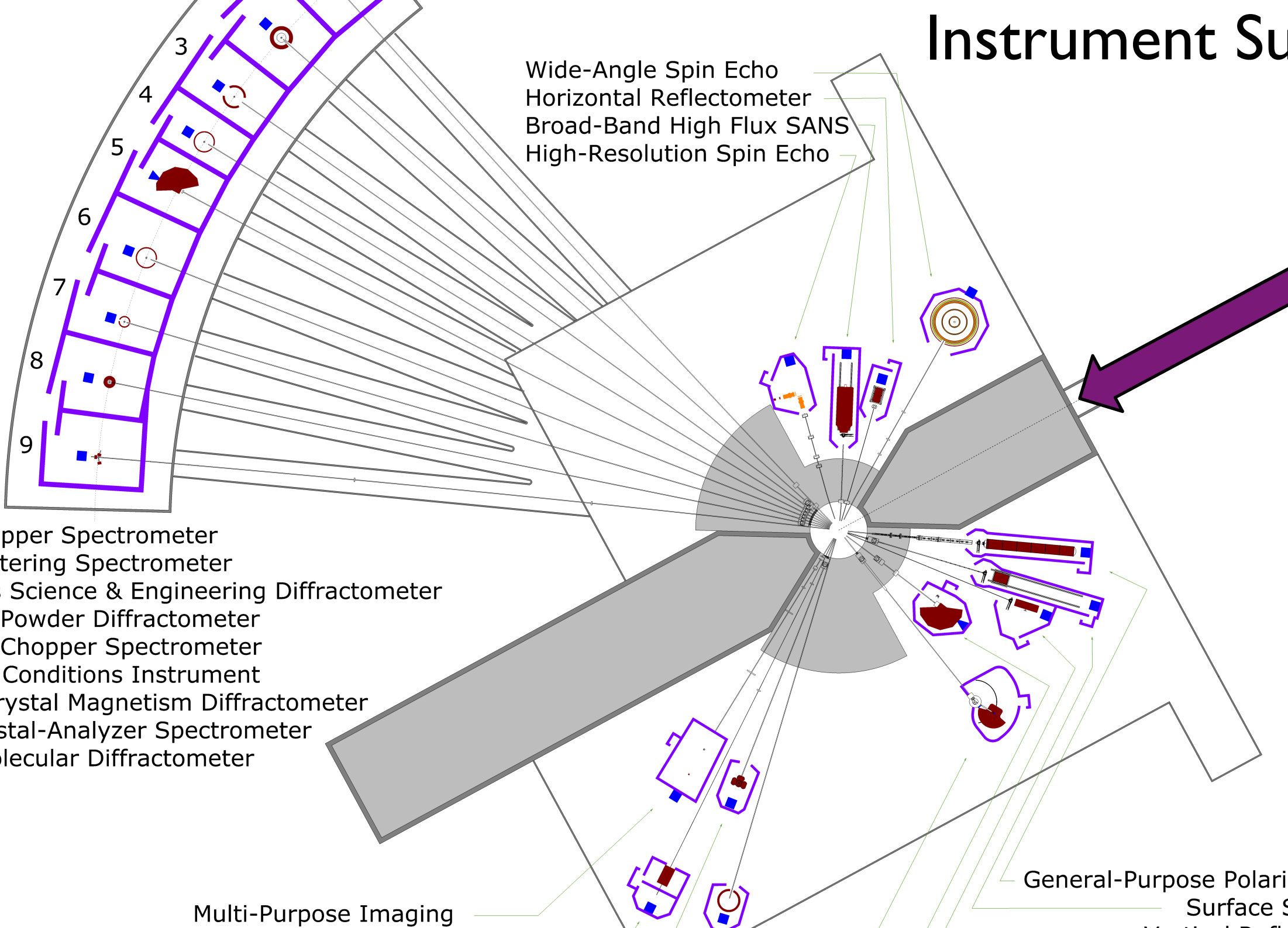
## Current staff movements:

- Mark Hagen head of DMSC, starting 7/10
- 3 new instrument scientists starting early 2014
- reorganisation of Programme Directorate
- New interim Machine Director: Feri Mezei
- Head of Target Division: Eric Pitcher
- Senior Expert for Target: John Haines

## First annual review 12-14/11



# Instrument Suite



Wide-Angle Spin Echo  
Horizontal Reflectometer  
Broad-Band High Flux SANS  
High-Resolution Spin Echo

Chopper Spectrometer  
Scattering Spectrometer  
Materials Science & Engineering Diffractometer  
Small Powder Diffractometer  
Small Chopper Spectrometer  
Time-Resolved Conditions Instrument  
Single-Crystal Magnetism Diffractometer  
Single-Crystal Analyzer Spectrometer  
Molecular Diffractometer

Multi-Purpose Imaging

General-Purpose Polarization  
Surface Scattering

Instrument	L(m-s)	Max HxV A	Max HxV Div	Size	Contact
Neutron scattering	50m	3x3cm <sup>2</sup>	±0.7°x0.7°	Medium	Markus Strobl
Wide angle SANS	30m			Small	
Small angle SANS	20m			Small	
Neutron scattering	30m			Small	
Horizontal reflectometer	27m			Small	
Vertical reflectometer	52m			Small	
High resolution powder diffractometer	150m	1x2cm <sup>2</sup>		Small	
Low resolution powder diffractometer	75m	1x1cm <sup>2</sup>		Small	Werner Schweikert
Single crystal monochromator diffractometer	46m			Medium	Paul Henry
High resolution diffractometer	150m	1x2cm <sup>2</sup>		Small	Markus Strobl
High pressure diffractometer	150m	1x1cm <sup>2</sup>		Small	
Single crystal magnetic diffractometer	150m	5x5mm <sup>2</sup>		Small	Werner Schweikert
Neutron molecular diffractometer	150m	3x3mm <sup>2</sup>	±0.1°x0.1°	Small	
Chopper spectrometer	150m	2x4cm <sup>2</sup>		Large	Pascale Deen
Vertical chopper spectrometer	25m	1x1cm <sup>2</sup>		Medium	Pascale Deen
Horizontal chopper spectrometer	150m	2x2cm <sup>2</sup>		Large	Pascale Deen
Time-of-flight analyser spectrometer	150m		±1.5°x2°	Medium	??
Neutron resonance spectroscopy	60m	2x2cm <sup>2</sup>	±2.5°x2.5°	Large	
Neutron scattering spectrometer	150m	3x3cm <sup>2</sup>	±3°x3°	Large	Niko Tsapatsaris
High resolution spin-echo	30m	3x3cm <sup>2</sup>	±0.5°x0.5°	Medium	

## Today: kick-off meeting

- Inform of situation
- Agree on work to be done: guide & moderator design
- Agree on information needed for work

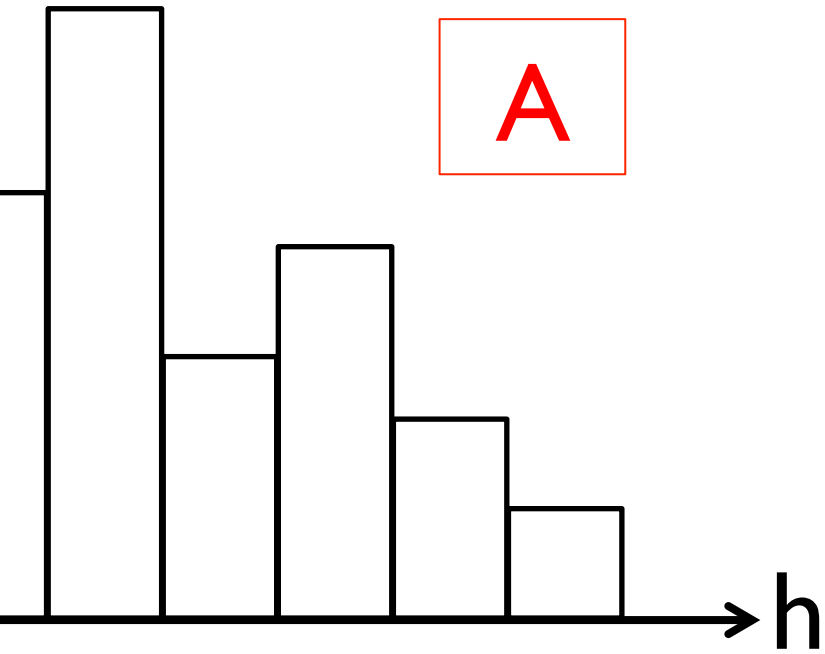
## Mid-January: report back on results

- Meeting date?
- Format of results

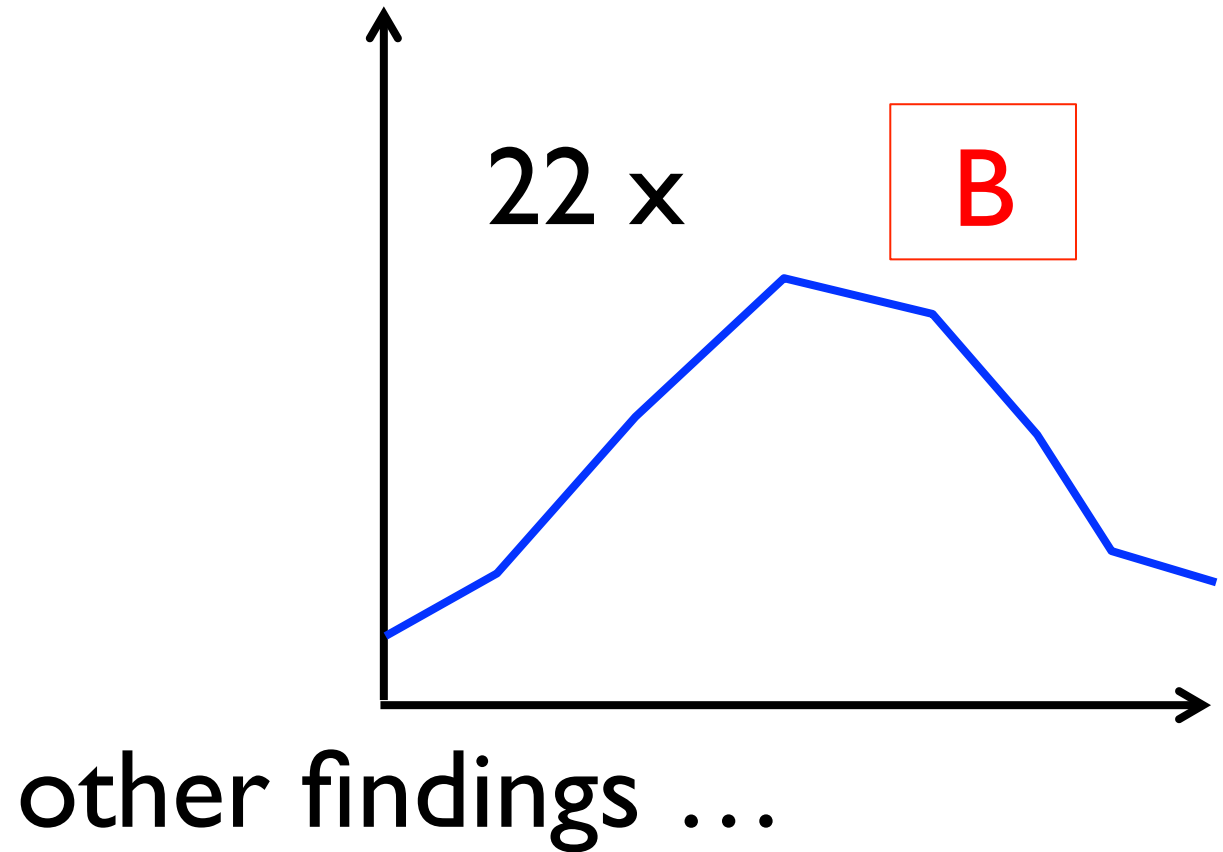
## End-April: freeze moderator design

- Arrive at global optimum for all instruments
- Arrive at new reference instrument layout
- Good flexibility

## Instruments:



FoM



## Moderator:

spectrum, opening angles, crazy ideas, ...

(mainly generated by internal discussion)