



EUROPEAN
SPALLATION
SOURCE

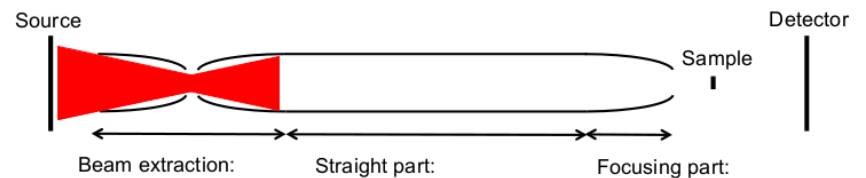
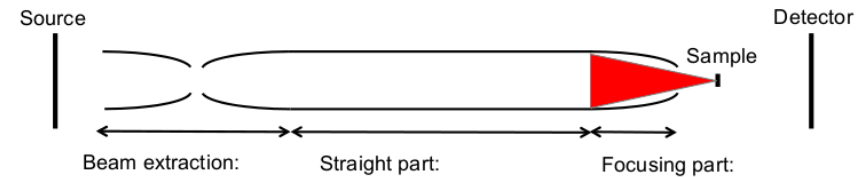
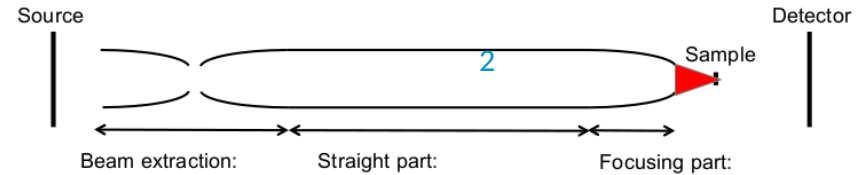
Initial Work on Standards Optics and Shielding

Phil Bentley
Group Leader

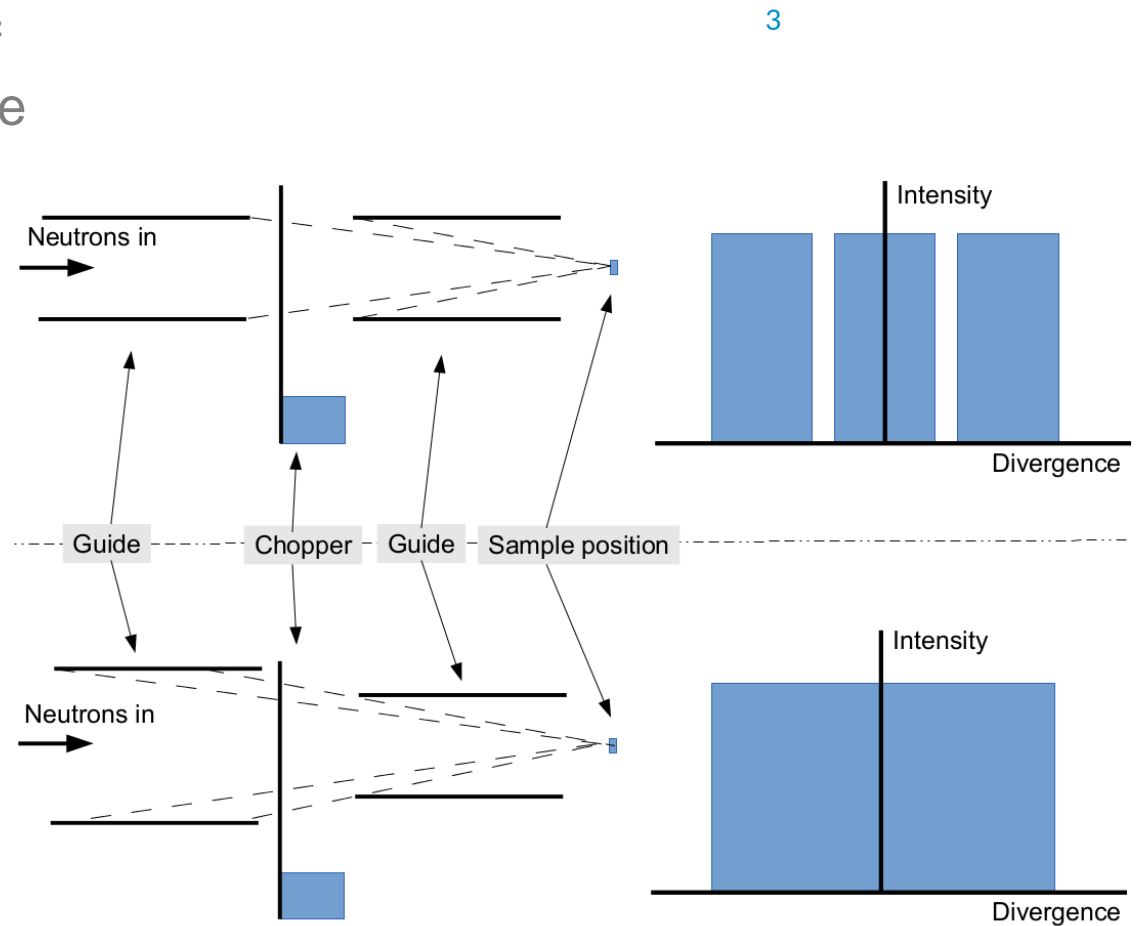
www.europeanspallationsource.se
13th November, 2013

Guides

- We have a standard concept that provides a good cost to performance ratio
- Medium and long instruments will probably converge on the system to the right:

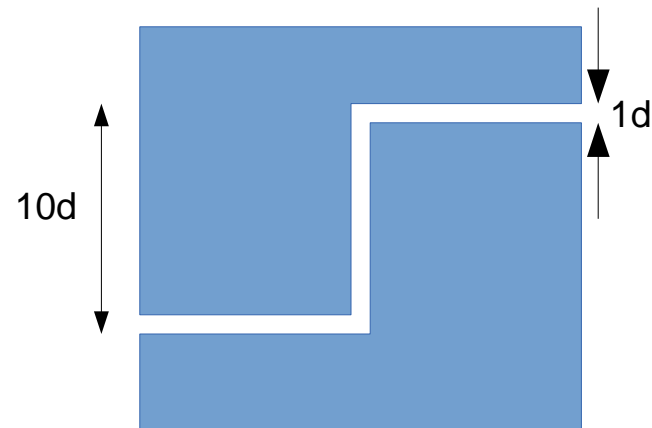


- Phase space filling of choppers near sample position



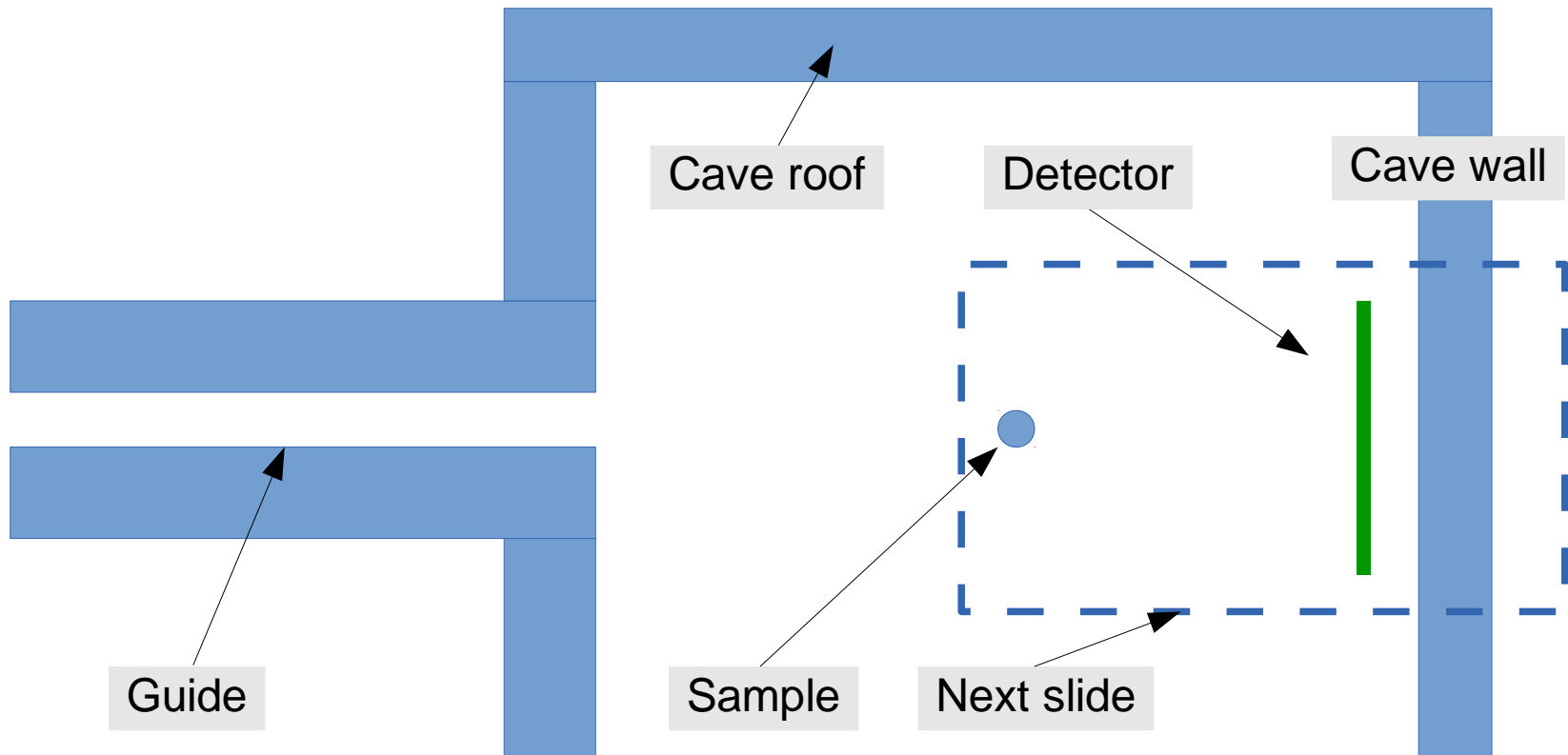
Shielding Chicanes

- General 7x "rule":
- Any gaps in shielding need steps that are 7x larger than the gaps
- We use 10x to provide margin of error



Instrument Caves

- Current thinking is that every instrument will have a cave enclosure, similar to TS2 at ISIS



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208 Pb if scintillators used (Fe capture barrier)

