

WG1: Low flux neutron scattering and Pre-experiment sample testing for ESS

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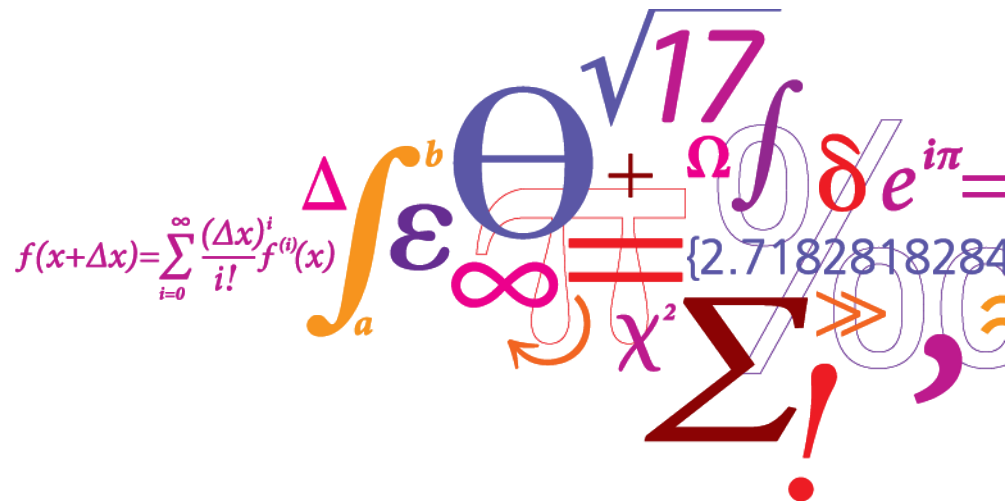
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a) Possible applications of a CANS at Risø

- Soft matter, imaging
- SANS (high contrast, slow dynamics)

b) Requirements to the CANS facility

- Possible to make publishable science within two weeks of experiment time
- Good signal-to-noise ratio essential
- Technical support
- Scientific support/collaboration and infrastructure

c) Demand for a CANS from Danish and European users

- ESS Lighthouses and CANS is to be considered a single package
- Success criteria will be to attract European collaboration

d) Possible sources for financing

- **Investment**

- Private funding

- **Operational expenses**

- DTU base funding

- DTU Nutech scientist(s)

e) Competition: Other facilities and alternative methods

- Other (European) CANS more likely to be collaborators than competitors
- Danish CANS should be well embedded in Danish science community

f) Recommendations for the future process

- Calculate two scenarios
 - Linac (proton/deuterons or electrons)
 - Cyclotron
- Establish expected signal-to-noise ratios
- Define science case
- Define relation to ESS Lighthouse(s)