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## **MacSANS: a new Small Angle Neutron Scattering facility at McMaster University**

*Sunday 10 June 2018 10:15 (15 minutes)*

MacSANS is a new small angle neutron scattering (SANS) beamline currently under construction at the McMaster Nuclear Reactor, a 5 MW research reactor based at McMaster University in Hamilton, Ontario. This beamline is designed to study a broad range of nanostructured materials, including biological membranes, polymers, superconductors, and novel magnets. In particular, MacSANS will allow users to probe the structure and magnetism of materials on length scales ranging from ~0.5 to 125 nm. MacSANS will be the only instrument of its kind in Canada, and is scheduled to begin commissioning experiments in the spring of 2019. In this presentation we will provide an overview of the instrument design and technical specifications, and discuss several potential applications in the field of soft matter physics.

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