



Contribution ID: 13

Type: **Talk**

# Neutron scattering on compact neutron sources

*Tuesday, 3 September 2019 14:00 (30 minutes)*

Recent technical improvements in the accelerator and target technology coupled with the concept of compact moderator open the possibility to conceive efficient neutron source for imaging and neutron scattering base on low energy accelerators. This is the concept of the Compact Accelerator driven Neutron Sources (CANS). Low power tests and McStas simulations show that instruments installed on such a source may have similar performances than those available on medium flux research reactors [1]. Considering the high flexibility of a compact source design, we have now to consider the option of conceiving a source fully adapted to a single family of instruments having similar source requirements. Within such a concept, available CANS have to organized themselves in a strong collaboration process with the other ones in order to fullfill the broad band requests of the users.

[1] F. Ott et al. Performances on Neutron Scattering Spectrometers on a Compact Neutron Source, ICANS XXII, IOP Conf. Series: Journal of Physics: Conf. Series 1021 (2018) 012007

## Poster back-up

No

**Primary authors:** MENELLE, Alain (Laboratoire Léon Brillouin, CEA Saclay); Dr OTT, Frédéric (Laboratoire Léon Brillouin, CEA Saclay)

**Presenter:** MENELLE, Alain (Laboratoire Léon Brillouin, CEA Saclay)

**Session Classification:** Talks

**Track Classification:** Instruments & Detectors