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Towards a Network of Accelerator-based Facilities in Europe

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As Europe looks forward to the completion of the European Spallation Source ESS, a clear understanding has emerged in the European neutron community that this future flagship must be supported by a hierarchical network of accelerator-driven neutron facilities. The League of advanced European Neutron Sources (LENS) has published a technical report on Low Energy Accelerator-driven Neutron Sources [1] supporting such developments. Representatives from 8 institutions with six specific projects have joined together in the European Low Energy accelerator-based Neutron facility Association (ELENA) [2]. The goal of ELENA is to promote cooperation within Europe in the field of neutron sources based on an accelerator and a low energy reaction to produce neutrons.

In this contribution, we will provide an overview of the changing neutron ecosystem in Europe and the ongoing activities within ELENA.

[1] <https://lens-initiative.org/resources/lens-position-papers/>

[2] <http://www.elena-neutron.eu/>