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Quantitative analysis and benchmarking of positional accuracy on neutron strain scanners – INTRODUCING THE NEUTRON QUALITY LABEL

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The neutron strain pilot projects within H2020- Sine2020 and BRIGHTNESS2 towards European neutron landscape & users have been key for facilitating industry access and collaborations in a regular basis. The shortcomings reducing the industrial experimental throughput are well known and very similar to all facilities. A central issue is the non-acceptance by industry to use the neutron technique as industrial standard. This “standardisation problem” addresses the urgent need of an established calibration method guaranteeing identical results for industry partners on different instruments at different facilities.

The proposed Neutron Quality Label establishes common calibration samples and reporting addressing positional accuracies and comparison of software, hence promoting the exchangeability and sustainability of neutron strain characterization between participants.

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