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'Neutron Microscope' instrument at PSI – recent upgrades and the first users experiments

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The high resolution neutron imaging instrument ('Neutron Microscope') at the Paul Scherrer Institut (PSI) allows for neutron imaging down to 5 micrometres spatial resolution (Trtik & Lehmann, 2016). The transferrable nature of the instrument allows for its use at different beamlines of SINQ (namely at ICON, POLDI, BOA) and also at other neutron sources. The recent advances in both the spatial resolution and the available light output of the high-resolution scintillator screens based on highly isotopically enriched 157-gadolinium oxysulfide will be presented. On the top of the instrumental upgrades, the examples of the results of the recent user investigations will be presented. The authors list of this presentation will be amended accordingly with respect to the presented users' applications.

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