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FaME38 is the Facility for Materials Engineering at the ILL-ESRF. This EPSRC (UK) co-funded, joint facility promotes and supports the use of neutron and synchrotron X-ray radiation for Materials Science and Engineering applications.

In addition to substantial laboratory infrastructure ranging from sample characterisation tools to sophisticated in-situ tensile testing equipment, FaME38 offers free assistance and support to users in all stages of the experiment, i.e. preparation of the proposals, set-up and data analysis.

FaME38 develops and has a broad range of expertise in different materials characterisation techniques, and excels in the non-destructive determination of residual stresses and strains
(also offered as a commercial service to industrial users.)

In this presentation, we present the facility, its equipment and recent highlights of materials engineering work undertaken at the ESRF.