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The Endeavour project at ISIS

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ISIS is continually updating and developing its suite of neutron and muon instrumentation in order to respond to the needs of the science community and to ensure ISIS remains a world-leading facility. Currently ISIS is embarking on a large programme called 'Endeavour' which aims to deliver 9 major instrumentation projects over a ten year time scale to meet current and future challenges in areas such as Materials for the Future, Clean Energy Technologies, Biosciences and Healthcare. This programme has been allocated funds from the UKRI's Infrastructure fund, with an anticipated funding release in early 2023. The project contains 4 new instruments; Mushroom: a new concept for inelastic neutron scattering. eMAP: engineering diffractometer. LMX: large molecule systems single crystal diffractometer. Wish-II: single crystal diffractometer optimised for small crystals. In addition there are 5 major instrument upgrades; HRPD-X: a significant upgrade to the current HRPD. Super-MuSR: enhanced flux and time resolution for next-generation muon studies. Tosca+: an order of magnitude more flux for vibrational spectroscopy. Sandals-II: upgrade of Sandals secondary for amorphous and liquid samples. Osiris+: 5 fold rate increase over Osiris for high resolution spectroscopy. The presentation will give more details on the Endeavour programme and the instrument projects contained within.

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