ILL INSTRUMENT SUITE AND ENDURANCE

Endurance 1 – completed
Endurance 1 – in progress
Endurance 2 – completed
Endurance 2 – in progress

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During the H1-H2 shutdown, the Endurance programme takes a massive step forward in the installation of new neutron guide systems and instrumentation:

- Complete installation of the H24 dual guide system (thermal neutrons).
- Installation of the four H24 new or refurbished instruments: D10+, XtremeD, IN13+ and CT2 (commissioning Q1 2023).
- A free end-of-guide position on H24 foreseen for future relocation of Fipps.
- Partial installation of the new H15 multi-branch guide system (cold neutrons).
- Preparation of future experimental areas for the five new or upgraded H15 instruments: D007, D11+, Sam, Sharp+, T3 (commissioning Q3 2024).
- Installation of the new neutron imaging facility, NeXT (ILL22 guide hall).
- Complete replacement and upgrade of the in-pile H1-H2 beam tube, H1 (cold) and H2 (thermal) neutron guides delivering neutrons to all ILL7 instruments.
- Seismic-resistant neutron guide pass-through between the reactor building and ILL7 guide hall.

Other instrument upgrades:
- PANTHER: New background chopper system.
- IN20: New monochromator and analyser.
- D16: New secondary spectrometer and large position-sensitive banana detector.
- WASP: Fresnel coil maintenance.
- IN16B: New variable guide for the BATS chopper system.