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SAPHiR: Neutron diffraction and radiography under extreme pressure and temperature conditions

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The new instrument SAPHiR is dedicated to time-of-flight neutron diffraction and radiography of powder samples, fluids, and melts at pressures up to 15 GPa and temperatures between 86–2300 K. Future applications include in-situ crystallography and phase relations of light-element-bearing phases, equations of state, reaction kinetics, and radiography for the Earth and materials sciences. Currently, SAPHiR is used offline for conducting deformation experiments to investigate planetary formation.

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