

HIGH PRESSURE BIOLOGY AND SOFT MATTER RESEARCH USING SYNCHROTRON RADIATION AND NEUTRONS

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Pressure is a fundamental thermodynamic variable that provides a unique view on the energy landscape of (biological) macromolecules. In addition, research into the effects of pressure on biological systems is also driven by the observation that life on Earth can be found even in the deepest parts of the oceans, where it is exposed to pressures up to 100 MPa. In this lecture I shall discuss the current topics in high pressure biology and soft matter research, and how X-rays and neutrons can be used to address these issues.