

French - German opportunities of cooperation to face the European revolution in neutron science



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Macromolecular Neutron Diffraction at the Heinz Maier-Leibnitz Zentrum MLZ

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The neutron single crystal diffractometer BIODIFF is dedicated to structure determination of proteins. Typical scientific questions address the determination of protonation states of amino acid side chains, the orientation of water molecules and the characterization of the hydrogen bonding network between the protein and an inhibitor or substrate. BIODIFF is designed as a monochromatic diffractometer and is able to adapt the wavelength to the size of the unit cell of the sample crystal.

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