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Winfried Petry is Scientific Director of the Neutron Research Reactor Heinz Maier-Leibnitz (FRM II) and a professor at the Technical University of Munich. His research areas are the investigation of the functional properties of materials such as proteins, polymers and viscous liquids, and the shape-memory alloys by means of light-, X-ray and neutron-scattering. He is an expert in exploiting neutron sources for basic science, industry and medicine. Mr Petry designed the instrumentation of the FRM II and is Head of the FRM II working group for developing high-density uranium fuels. Previously, he worked as a scientist with the European Institute for Neutron Research and the Institut Laue-Langevin in France. Mr Petry is also Founding Director of the Heinz Maier-Leibnitz Zentrum (MLZ), which seeks to advance neutron research in Germany.