

Plenary talks (PV)

Plenary Talk PV V Tue 8:30 H1
NMR and MRI: Basic Physics for the Sake of Society —
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Nuclear Magnetic Resonance (NMR) and Magnetic Resonance Imag-
ing (MRI) became indispensable tools in physics, chemistry, biology,

and medicine with numerous applications that are highly relevant for enhancing our understanding of nature and for diagnosing diseases. It is narrated how a fundamental physics experiment took all the way into the medical clinical practice and became useful even for exploring psychological phenomena. George E. Pake has once said: "Magnetic resonance imaging is an irrefutable testimonial to the enormous value of basic research."