

Seminar

From crystal defects to resonant nonlinear optical phenomena: studies in LiNbO₃ and related oxide crystals

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Abstract

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Topics and cooperations of the Crystal Physics Group Budapest will be reviewed, in starting from EPR/ENDOR/ODMR defect studies on transient and rare earth metal doped LiNbO3 carried out during earlier stays in Paderborn, and ending by a discussion of open questions concerning the main radiation hole defect in undoped LiNbO3. Present activities of the Budapest group including holographic and laser spectroscopic studies aimed at various applications including possible resonant nonlinear optical phenomena in LiNbO₃ and borates will also be shortly described.