

## **TRR Guest Scientist Lecture / Seminar**

Date/Time:20.08.2015/2.15pmLocation:Tu-Do / P1-02-111

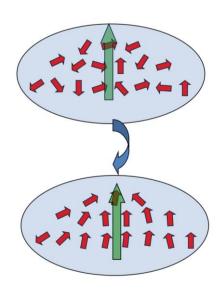
## Prof. Dr. Vladimir Korenev

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## Nonlinear properties of an electron–nuclear spin system of AlGaAs crystals in a strong magnetic field

Abstract:



I present the results of theoretical and experimental investigation of non-linear effects revealed in solid semiconductor solutions under optical orientation of charge carriers. Those effects are caused by hyperfine interaction between the carriers and the crystal lattice nuclei. They manifest themselves in the appearance of bistability and auto-oscillations of luminescence polarization excited by circularly polarized light.

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