



独立行政法人理化学研究所 仁科加速器研究センター

第50回RIBF核物理セミナー

RIKEN Nishina Center for Accelerator Based Science

The 50th RIBF Nuclear Physics Seminar

## Synthesis of superheavies. State of affair and outlook.

Prof. Valery Zagrebaev

(Flerov Laboratory of Nuclear Reaction, JINR, Dubna, Russia )

Recent experimental results on synthesis of superheavy elements will be reviewed in the talk. Strongly coupled and competitive processes of deep inelastic scattering, fusion, fission and quasi-fission will be analyzed within a realistic dynamical model. Future trends and alternative ways for production of superheavy nuclei in the region of the “island of stability” will be also discussed. In particular, a large mass transfer caused by the shell effects in low-energy damped collisions of transactinides will be considered for the purpose of the formation of the surviving superheavy long-lived neutron-rich nuclei.

Oct. 26 (Fri), 2007 13:30-  
RIBF Conf. Hall, RIKEN

*The seminar will be given in English.*

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