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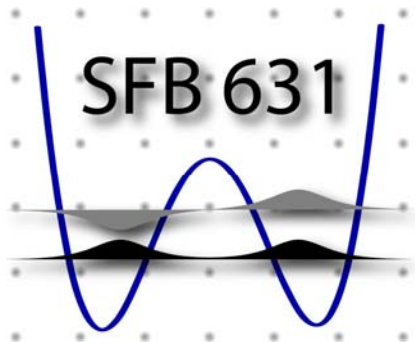
VORTRAGSANKÜNDIGUNG

Am Montag, den 28.01.2008 um 13.30 Uhr

spricht Prof. Dr. John Schliemann
Universität Regensburg

über „Zitterbewegung and Ballistic Side Jump Motion in Semiconductor Structures“

Seminarraum Theorie, B 2.46 im MPI für Quantenoptik, Garching



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Prof. Dr. John Schliemann
Universität Regensburg

Zitterbewegung and Ballistic Side Jump Motion in Semiconductor Structures

Effects of spin-orbit coupling in semiconductors have attracted a very significant, partially also renewed, interest over the last years, mainly within the emerging field of spintronics. In this talk I will report on recent theoretical developments concerning zitterbewegung and side jump motion of electrons and holes in III-V semiconductor structures. In particular, the relativistic effect of electronic zitterbewegung has been a long-standing theoretical prediction which was not observed experimentally so far. I will outline the perspectives to detect such an effect in appropriate nanostructures.