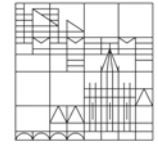


SFB 767 Seminar

rescheduled date!

Universität
Konstanz



Fr June 14, 2019
10:00
P 602



Prof. Dr. Ajay Kumar Ghosh
Dept. of Physics, Jadavpur University, Kolkata
(India)

Kosterlitz-Thouless transition and tuning of nonlinearity in the vicinity of superconducting phase transition

Below the superconducting phase transition temperature nonlinear current-voltage (I/V) characteristics can be very important to understand the nature of the superfluid phase stiffness. Nonlinearity in I/V of cuprate has been studied by using different methods. Possibility of KT transition in 3D cuprates with a wide range of current density and strong pinning potential has been explored with the help of an exponent originally introduced in 3DXY model. Superfluidity in several such bulk systems will also be discussed.

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