

Abstract Submitted
for the MAR06 Meeting of
The American Physical Society

Bad Screening and Applicability of Migdal's Theorem to Layered Cuprates ALEXEI ABRIKOSOV, Materials Science Division, Argonne National Laboratory, USA — A proof is presented, that in the model of high- T_c layered cuprates with long-range phonon-mediated attraction, due to bad screening of Coulomb forces, the “Migdal's theorem,” permitting to neglect vertex corrections, still holds, despite the absence of the small “adiabatic parameter.” The calculation of the superconducting critical temperature for this model permits to explain the high values of T_c observed in experiment. This work was supported by the Department of Energy under the contracts # W-31-109-ENG-38.

Alexei Abrikosov
Materials Science Division, Argonne National Laboratory, USA

Date submitted: 21 Nov 2005

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