

# **Signature of multifractality for off-critical states and the multifractal superconductivity**

V.E. Kravtsov

Abdus Salam International Centre for Theoretical Physics, P.O.Box 586, 34100 Trieste, Italy

We consider the signature of multifractality for the single particle eigenfunctions in disordered metals close to but not exactly at the point of the Anderson localization transition. We identify the relevant random matrix ensembles for a multifractal metal and a multifractal insulator and apply them to study the superconductivity of dirty metals near the Anderson localization transition.