

On s -Riesz External Fields in the real axis

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In this talk, equilibrium problems for s -Riesz Potentials ($0 < s < 1$) in the real axis are discussed; in particular, we consider equilibrium problems in the presence of external fields created by point masses. Such external fields are often known, especially when the conductor is a sphere $\mathbb{S}^{n-1} \subset \mathbb{R}^n$, as s -Riesz external fields. The case of the logarithmic potential, usually seen as a limit case of the previous ones ($s = 0$), will be also considered; in particular, the emphasis will be placed in the different techniques employed: s -Riesz “versus” Logarithmic potentials.

This talk is based on recent joint works with David Benko (Univ. South Alabama, USA) and Peter Dragnev (IPFW, Indiana, USA).