



Contribution ID: 57

Type: Poster

Non-Perturbative Vacuum Polarization Effects in One- and Two-Dimensional Supercritical Dirac-Coulomb Systems

Keywords

non-perturbative QED-effects, one- and two-dimensional Dirac-Coulomb systems, supercritical fields, vacuum polarization.

Topics

Fundamental Aspects, Structure and Spectroscopy

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