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Relativistic Quantum State, Geometric Phase and **Dissipationless Spin current**

S. Arunagiri (POSTECH)

(Submitted on 20 Jul 2011)

Spin current of a Dirac particle is shown to be given by the geometric phase and in terms of the later, a closed form expression is obtained for the dissipationlessness of the spin current.

Comments: 2 pages, 1 figure

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