

日本物理学会九州支部

琉球大学理学部物理教室

特別講演会

談話会

講師： Prof. Peter Fulde

Max-Planck-Institut für Physik komplexer Systeme (Dresden)
and Asia Pacific Center for Theoretical Physics (Pohang)

演題：“Strongly Correlated Electrons in Frustrated Lattices”

日時： 平成20年3月18日（火） 16:00 - 17:00

場所： 琉球大学理学部本館 物理学講義室 313号室

Abstract

Strongly correlated electrons in frustrated lattice structures give rise to excitations with fractional charges. The latter can be confined or deconfined depending on dimension. At certain filling factors the ground state of a system behaves like fluctuating strings. A survey is given of a number of interesting physical properties. For example in a kagomé lattice with a filling factor of $1/6$ (or $5/6$) a robust ferromagnetic ground state is obtained which is exclusively due to kinetic effects.

主催： 日本物理学会九州支部

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連絡先： 琉大理 物理 梯 祥郎

Email: yok@sci.u-ryukyu.ac.jp

Tel: 098-895-8510

Fax: 098-895-8509