

Großes Physikalisches Kolloquium an der Universität zu Köln

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Exploring the heart of Quantum Matter with extreme magnetic fields

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16⁴⁵ Uhr / HS III



In “Quantum Matter” intrinsic electronic charges and spins conspire in strange and weird ways to create new materials properties. High magnetic fields are uniquely positioned to probe the mysteries that remain at the heart of Quantum Matter, where Nature creates $1/3$ fractional electric charges, “spin liquids” of fixed charges but mobile spins, and high-temperature superconductivity in which even the existence of electrons as particles becomes uncertain.

