

Lecture series on Electromagnetism, Charge Quantization and Cohomology

22.10.2009, 16:48 Uhr

Lecture series by Prof. Paolo Aschieri, Facolta di Scienze M.F.N., Alessandria, Italien: *Electromagnetism, Charge Quantization and Cohomology*

Topological aspects of field theories are often ignored (usually for lack of time) in the introductory courses. These lectures aim to fill this gap.

- 1.Mi 28.10.09, 13:00 Uhr, SE 4: *Electromagnetism in Quantum Theory and Dirac Charge Quantization (Geometry of Electromagnetism: Line Bundles)*
- 2.Fr 30.10.09, 13:00 Uhr, SE 5: *Observables: Wilson lines (a.k.a. Aharonov Bohm Effect) (Cohomologies)*
- 3.Mi 11.11.09, 13:00 SE 4 (t.b.c.): *Strings and Higher Electromagnetism (Geometry of Higher Electromagnetism: Gerbes)*
- 4.Fr 13.11.09, 13:00 SE 5 (t.b.c.): *Global Anomalies (Global Sections of Bundles and Gerbes)*