



Kilogram, Planck units and Quantum Hall Effect.

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Tuesday, 22 May 2012, 16:45 h DESY Auditorium





In forthcoming years the International System of units is going to finally transform from a set of artifacts into a "user friendly" Planck system where all the units are related to fundamental constants of nature. The "new SI" relies on an amazing relation between macroscopic quantum phenomena, such as Josephson and Quantum hall effects, and the exact values of Planck constant and elementary charge. In this talk I discuss the physics behind this relation and how it may be affected by quantum field effects.

- Coffee, tea and cookies will be served at 16.30h
- After the seminar there is a chance for private discussions with the speaker over wine and pretzels



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