

NEUTRAL KAON INTERFEROMETRY AT A Φ -FACTORY: from Quantum Mechanics to Quantum Gravity

Laboratori Nazionali di Frascati dell'INFN
March 24th, 2006 (9:30 – 18:30)
Aula Touschek

A one-day workshop devoted to discuss the potentialities
of neutral kaon interferometry at a ϕ -factory:

Decoherence and novel CPT violation in quantum gravity
Open quantum dynamics and complete positivity
CPT and Lorentz symmetry breaking
Entanglement, Bell's inequalities and other
tests of Quantum Mechanics
CPT violation and Bell-Steinberger relation
Review of experimental results and perspectives

Speakers:

G. Amelino-Camelia (Roma), J. Bernabeu (Valencia),
R. Bertlmann (Vienna), A. Bramon (Barcelona),
R. Floreanini (Trieste), A. Go (CERN), B. Hiesmayr (Vienna),
G. Isidori (LNF), R. Lehnert (MIT), N. Mavromatos (London)

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