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Study of KS semileptonic decays and CPT tests with the KLOE detector

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Study of semileptonic decays of neutral kaons allows to perform a test of discrete symmetries, as well as basic principles of the Standard Model. In this presentation a general review on dependency between charge asymmetry constructed for semileptonic decays of short- and long-lived kaons and CPT symmetry is given. The current status of determination of charge asymmetry for short-lived kaon, obtained by registering of about 1.7 billion KSKL meson pairs collected at DAΦNE with the KLOE detector is also reviewed.

Authors: DI DOMENICO, Antonio (Universita e INFN, Roma I (IT)); KAMINSKA, Daria

Presenter: KAMINSKA, Daria

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