

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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We are celebrating the 50 anniversary of the discovery of CP- Violation. The direct evidence of separate genuine Time-Reversal-Violating Asymmetries, independent of CP-Violation and CPT-Invariance, came recently in the transitions filtered by time-ordered decays of Entangled Neutral B-mesons. These Symmetry Breakings are understood in the quantum field theory of ElectroWeak Interactions in terms of the particle content. Quantum Mechanics does not preclude the possible Violation of the CPT-Theorem, but it needs a more subtle mechanism.

Author: BERNABEU, Jose (IFIC)

Presenter: BERNABEU, Jose (IFIC)

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