DISCRETE 2012 - Third Symposium on Prospects in the Physics of Discrete Symmetries



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Fermion mixing with geometrical CP violation and its tests at the LHC

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We construct for the first time a flavor model, based on the smallest discrete symmetry Delta(27) that implements spontaneous CP violation with a complex phase of geometric origin, which can actually reproduce all quark masses and mixing data. We show that its scalar sector has exotic properties that can be tested at the LHC.

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