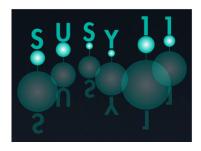
Supersymmetry 2011 (SUSY11)



Contribution ID: 510 Type: not specified

The Double Cover of the Icosahedral Symmetry Group and Quark Mass Textures

Thursday, 1 September 2011 15:10 (20 minutes)

The icosahedral (A5) group has been shown to be a viable family symmetry group for the leptons. To incorporate the quarks, it is highly advantageous to extend the group to its double cover, as in the case of tetrahedral (A4) symmetry. In this talk, we present the basic group theoretical tools for flavor model-building based on the binary icosahedral group, I'. Using these tools, we construct a model of the quark masses and mixings that yields many of the successful predictions of the well-known U(2) quark texture models.

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Session Classification: Parallel Session 9