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

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The icosahedral (A_5) 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 (A_4) symmetry. In this talk, we present the basic group theoretical tools for flavor model-building based on the binary icosahedral group, Γ . 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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