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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,  $\Gamma$ . 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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