



Contribution ID: 2

Type: **not specified**

A model for neutrino masses and mixing based on the non-abelian discrete symmetry A_4

Monday, 6 December 2010 17:00 (25 minutes)

In this talk I will present a see-saw A_4 model for Tri-Bimaximal mixing which is based on a very economical flavour symmetry and field content and still possesses all the good features of A_4 models. In particular the charged lepton mass hierarchies are determined by the $A_4 \times Z_4$ flavour symmetry itself without invoking a Froggatt-Nielsen $U(1)$ symmetry. Tri-Bimaximal mixing is exact in leading order while all the mixing angles receive corrections of the same order in next-to-the-leading approximation. As a consequence the predicted value of the angle θ_{13} is within the sensitivity of the experiments which will take data in the near future. The light neutrino spectrum with its phenomenological implications, also including leptoproduction, will be also discussed.

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Session Classification: Neutrino mass, mixing and discrete symmetries (2)

Track Classification: Neutrino mass and mixing