



Contribution ID: 231

Type: **not specified**

Applying A_4 to three-Higgs doublet model implies alignment

Friday 27 August 2021 15:10 (20 minutes)

[This talk will be on JHEP 1801 (2018) 011 by Soumita Pramanick and Amitava Raychaudhuri]

Three-higgs doublet model in A_4 symmetric framework will be discussed.

It was observed that if we consider three $SU(2)_L$ doublet scalars forming a triplet under A_4 symmetry, alignment follows for four global minima configurations of the vacuum expectation values (vevs) naturally owing to the A_4 symmetry. No fine-tuning was needed.

Positivity and unitarity conditions were satisfied.

Author: Dr PRAMANICK, Soumita (National Centre for Nuclear Research (NCBJ), Warsaw, Poland)

Co-author: Prof. RAYCHAUDHURI, Amitava (Department of Physics, University of Calcutta, India)

Presenter: Dr PRAMANICK, Soumita (National Centre for Nuclear Research (NCBJ), Warsaw, Poland)

Session Classification: Electroweak, Top quark, and Higgs Physics

Track Classification: Electroweak, Top quark, and Higgs Physics