



Contribution ID: 75

Type: **Contributed talk**

The flavor content of light and heavy-light pseudoscalars mesons

Thursday 2 December 2021 10:50 (20 minutes)

In the present work, the electroweak properties of light and charmed D and D_s pseudoscalar mesons are explored with the covariant constituent quark model. The quark-antiquark-meson vertices are assumed to have a symmetric form by the exchange of quark momenta, which is successful in describing the light pseudoscalar meson properties. The flavor decomposition of the elastic electromagnetic form factors, electromagnetic charge radii, and weak decay constants are calculated. The SU(3) and SU(4) symmetry breaking are discussed, and a comparison with the pion and kaon properties to highlight the Higgs contribution to the structure of these mesons are made. Also, the results are compared with the Lattice.

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Session Classification: Parallel Session