Contribution ID: **9** Type: **Short contribution**

Studies of electromagnetic η and η'decays with the Crystal Ball-TAPS detector.

Wednesday, 12 November 2014 11:20 (20 minutes)

Precision studies of light mesons decays are used to study a wide range of topics related to fundamental aspects of hadron physics. Besides tests of fundamental symmetries of the Standard Model, precision data of η and η'decays provide a testing ground for effective field theory. In addition, measurements of the η and η' transition form factors give valuable information on the hadronic light-by-light contribution to the anomalous magnetic moment of the muon. With the Crystal Ball-TAPS detector setup at the Mainz Microtron, large statistics samples of η and η'have been collected. An overview of the experimental setup and recent results on electromagnetic η and η'decays are presented.

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Session Classification: SFS-KF

Track Classification: SFS-KF