## 2017 CAP Congress / Congrès de l'ACP 2017

physiciens et physiciennes

Contribution ID: 1672

Type: CLOSED - Oral (Non-Student) / orale (non-étudiant)

## Dynamical spin effects in predicting pion observables

Wednesday, 31 May 2017 16:30 (15 minutes)

We present our predictions for pion mean charge radius, decay constant, spacelike electromagnetic form factor, twist-2 Distribution Amplitude and the photon-to-pion transition form factor when a dynamical spin structure for the pseudoscalar particle is considered along with a holographic light-front wavefunction. Our results show significant improvement in agreement with available data.

**Primary author:** AHMADY, Mohammad (Mount Allison University)

Co-authors: SANDAPEN, Ruben (Acadia University); Dr CHISHTIE, Farrukh (Theoretical Research Institute,

Pakistan Academy of Sciences (TRIPAS))

**Presenter:** AHMADY, Mohammad (Mount Allison University)

Session Classification: W4-3 Advances in Nuclear and Particle Physics Theory (DTP/PPD/DNP)

Progrès en physique nucléaire et en physique des particules théoriques (DPT/PPD/DPN)

Track Classification: Theoretical Physics / Physique théorique (DTP-DPT)