



ID contributo: 27

Tipo: **Plenary Contribution**

The eta -> pi+ pi- pi0 decay with WASA-at-COSY

martedì 11 ottobre 2011 17:30 (25 minuti)

Recently, a large statistics sample of approximately $3 \cdot 10^7$ decays of the eta meson have been collected with the WASA detector at COSY using the $pd \rightarrow 3He$ reaction at beam kinetic energy 1 GeV. This data are being used to study the not so rare eta decays involving charged pions, like $\pi^+ \pi^- \pi^0$. This decay proceeds mainly via a strong isospin violating contribution, where the decay width is proportional to the light quark mass difference squared, $(m_d - m_u)^2$. Preliminary results of the analysis are presented. Supported by BMBF, Wallenberg Foundation and Uddeholms Forskarstipendium.

Autore principale: Sig. ADLARSON, Patrik (Uppsala Universitet)

Relatore: Sig. ADLARSON, Patrik (Uppsala Universitet)

Classifica Sessioni: Hadron Physics II

Classificazione della track: Hadron Physics