

ID contributo: 42 Tipo: Plenary Contribution

Search for the 4He-eta bound state with WASA-at-COSY

martedì 11 ottobre 2011 15:45 (25 minuti)

We conduct a search for the 4He-eta bound state with WASA-at-COSY facility, via a measurement of the excitation functions for the dd -> 3-He p pi- reaction, where the outgoing p-pi pairs originate from the conversion of the eta meson on a nucleon inside the He nucleus. In June, 2008 first measurements of the excitation functions for the dd -> 3He p pi reaction were performed. In the experiment we used a slowly ramped COSY deutron beam, scanning the range of momenta corresponding to the variation of the excess energy for the 4He-eta system from - 60 MeV to 20 MeV.

The final results from the analysis will be presented.

Autore principale: Sig. KRZEMIEN, Wojciech (Jagiellonian University)

Relatore: Sig. KRZEMIEN, Wojciech (Jagiellonian University)

Classifica Sessioni: Hadron Physics II

Classificazione della track: Hadron Physics