

η meson production in proton-deuteron collisions

Tuesday, 3 June 2014 11:30 (0:30)

Collaboration

Abstract content

Since many years the strong final state interaction between eta mesons and light nuclei and the discussed possibility for the formation of η -mesic nuclei has attracted broad experimental and theoretical investigations. Prominent examples are production experiments on the ${}^3\text{He}-\eta$ final state which present an unexpected strong total cross section enhancement at threshold, indicating the presence of a pole very close to threshold. Stimulated by these results new proton-deuteron collision experiments on the eta meson production have been performed in the near-threshold region and at higher excess energies using both polarized and unpolarized beams. Recent results will be presented and discussed in this talk.

Primary author(s) : KHOUKAZ, Alfons (University of Münster)

Presenter(s) : KHOUKAZ, Alfons (University of Münster)

Session Classification : Plenary Session