Contribution ID: **59** Type: **not specified**

Scalar photoproduction on the proton at CLAS and GlueX energies

Tuesday 4 February 2014 17:00 (30 minutes)

In this work we present the results of a theoretical analysis of the data on photoproduction of $f_0(980)$ meson in the laboratory photon energy between 3.0 and 3.8 GeV. A comparison is done to the measurements performed by the CLAS collaboration at JLab accelerator for the exclusive reaction $\gamma p \to p f_0(980)$. In the analysis the partial S-wave differential cross section is described by a model based on Regge approach with reggeized exchanges and distinct scenarios for the $f_0(980) \to V\gamma$ coupling are considered. It is shown that such a process can provide information on the resonance structure and production mechanism. We also present the results for GlueX energies.

Author: DA SILVA, Mario Luiz L (Universidade Federal de Pelotas)

Co-author: MACHADO, Magno (Universidade Federal do Pampa)

Presenter: DA SILVA, Mario Luiz L (Universidade Federal de Pelotas)