

# The Seventh International Symposium on Chiral Symmetry in Hadrons and Nuclei

Contribution ID: 40

Type: **not specified**

## The $f_0(1790)$ and $f_0(1800)$ puzzle

*Monday, 28 October 2013 14:50 (20 minutes)*

I will present the results of our works on  $f_0$  mesons with mass around 1700-1800. From some recent results available from the BES collaboration, it seems that two new  $f_0$  resonances exist with masses around 1800 MeV. One of them has been found in the two pion mass spectrum and the decay of the same has been found to be suppressed to K anti-K system. While the other has been found in the  $\phi\omega$  mass spectrum in the process  $J/\Psi \rightarrow \gamma\phi\omega$ . I will discuss that the first one is indeed a new state which can be understood as a  $\pi\pi f_0(980)$  resonance, while the other is a manifestation of the well known  $f_0(1710)$  resonance.

**Primary author:** Dr KHEMCHANDANI, Kanchan (IF-USP)

**Presenter:** Dr KHEMCHANDANI, Kanchan (IF-USP)

**Track Classification:** Parellel A