



Contribution ID: 236

Type: **Poster**

Search for the $\phi(2170)$ in the photoproduction reaction

We have studied the $\gamma p \rightarrow \eta \phi p$ reaction within the effective Lagrangian approach by considering the contribution of the intermediate state $\phi(2170)$ production, and the background contributions of t-channel π^0 and η mesons exchanges with the intermediate states N and N(1535). Our calculations show that there may be a peak, at least a bump structure around 2180 MeV associated to the resonance $\phi(2170)$ in the $\eta \phi$ mass distribution. We suggest to search for the resonance $\phi(2170)$ in this reaction, which would be helpful to shed light on its nature.

Primary author: Dr WANG, En (Zhengzhou University)

Presenter: Dr WANG, En (Zhengzhou University)

Track Classification: Posters