## Photoproduction of $\mathbf{K}^*$ for the study of $\Lambda(1405)$

The photo-induced K\* vector meson production is investigated for the study of  $\Lambda$ (1405). This reaction is particularly suited to the isolation of the second pole in the  $\Lambda$ (1405) region which couples dominantly to the  $\overline{K}N$  channel. We obtained the mass distribution of the  $\Lambda$ (1405) which peaks at 1420 MeV, and differs from the nominal one.

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