Differential Photoproduction Cross Sections for the $\Sigma^0(1385)$, $\Lambda(1405)$ and $\Lambda(1520)$.

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We report the photoproduction cross sections for the $\Sigma^0(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$ in the reactions $\gamma + p \rightarrow K^+ + Y^*$ using the CLAS detector for energies from near production threshold up to a center-of-mass energy W of 2.85 GeV. The differential cross sections are integrated to give the total cross sections for each hyperon. Comparisons are made to current theoretical models based on the effective Lagrangians approach and fitted to previous data. The accuracy of these models is seen to vary widely. The cross sections for the $\Lambda(1405)$ region are strikingly different for the $\Sigma^+\pi^-$, $\Sigma^0\pi^0$, and $\Sigma^-\pi^+$ decay channels, indicating the effect of isospin interference, especially at W values close to the threshold.

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