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Threshold KY photoproduction at the BGOOD experiment: Do we see multi-quark structures in the uds-sector?

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The discovery of the X, Y, Z states in the (hidden) charm meson sector first by Belle, and the PC baryon states by LHCb revealed the existence of multi-quark objects beyond the simple quarkantiquark or 3-quark valence configurations. If the emergence of such multi-quark structures was a general feature of QCD, then related structures should appear in the uds-sector as well. The BGOOD experiment at the ELSA electron accelerator of Bonn University is exactly devoted to investigate such possible baryonic structures in meson photoproduction. Particular attention is paid to threshold effects in associated KY photoproduction. I will discuss recent results which include the archetypal meson-baryon 5-quark hyperon $\Lambda(1405)$, the hypothesised N*(2030/2080) as the strange-sector partners of the charm-sector PC*(4380/4450) pentaquarks, and an intriguing cusp effect at the K $\Sigma(1385)$ threshold.

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