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Dispersive analysis of the Primakoff reaction $\gamma K \to K\pi$

We provide a dispersion-theoretical representation
of the reaction amplitudes $\gamma K \to K\pi$ in
all charge channels, based on modern pion–kaon P-wave
phase shift input. Crossed-channel singularities
are fixed from phenomenology as far as possible.
We demonstrate how the subtraction constants can be
matched to a low-energy theorem and radiative couplings
of the $K^*(892)$ resonances, thereby providing
a model-independent framework for future analyses of
high-precision kaon Primakoff data.

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