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Radiative Physics on the Lattice using Distillation

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We present a progress update on an ongoing calculation aimed at extracting photocouplings in the light-quark sector from radiative matrix elements computed using lattice QCD. These couplings drive the rate of photo production of mesons, of particular interest are exotic and hybrid mesons which while present in lattice calculations have yet to be observed experimentally. The use of distillation in conjunction with a large variational basis of interpolating operators allows for efficient extraction of signals from three-point functions making such calculations possible. Preliminary results for excited state light quark transition form factors will be presented.

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