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Static-light meson spectroscopy with optimal distillation profiles

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The spectrum of static-light and static-charm mesons is studied using optimized distillation in two different $N_f = 3 + 1$ QCD ensembles with pion masses of $m_\pi \approx 800$ MeV and $m_\pi \approx 420$ MeV. Local and derivative-based operators are used to access states of multiple quantum numbers. The use of optimal profiles is shown to improve the overlap with the energy states compared to standard distillation.

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