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Radiative pi-gamma transitions of excited light-quark mesons in the covariant oscillator quark model

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The COMPASS collaboration, as a part of their hadron spectroscopy program, will measure the radiative decay widths of the light-quark mesons via the Primakoff reactions. In this work we study the photon couplings of light qqbar states applying the covariant oscillator quark model and evaluate the rates for the transitions; {rho, b1(1235), a1(1260), a2(1320), pi2(1670), rho3(1690), rho(1700)} -> pi gamma, which can be measured in the experiments. Forthcoming results from the COMPASS will make these predictions to verify.

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