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Decays of the pseudoscalar glueball into scalar and pseudoscalar mesons

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We study a chiral Lagrangian which describes the two-body and three-body decays of a pseudoscalar glueball into scalar and pseudoscalar mesons. The branching ratios represent a clear and parameter free prediction of our approach. In agreement with Lattice simulations, we evaluate the decays for a pseudoscalar glueball with a mass of 2.6 GeV, which is in the reach of the future Panda experiment at the Fair facility. For completeness, we also repeat the calculation for a glueball mass of 2.37 GeV, which corresponds to the mass of the resonance $X(2370)$ measured in the BESIII experiment.

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