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Effective operators for coupling adjoint scalar fields to SM gauge bosons

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We study novel decay topologies for adjoint scalar fields. Such fields appear in many models, such as Minimal Flavor Violating and R-symmetric versions of supersymmetry. We study effective operators where the adjoint scalars couple to pairs of SM gauge bosons. In particular we focus on gluon-photon and gluon-Z decays of colored adjoint scalars. We present sensitivity studies in new channels as well as recast previous searches.

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