

Quarkophobic W' for LHC searches

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We consider a simplified model where a quarkophobic W' is added to the standard model. This W' is considered to not couple or couple very feable to quarks, but in addition it couples to the standard model electroweak gauge bosons and leptons. We study the implications of such a new particle for the LHC and b-anomalies. We finally set limits from high energy searches that could be performed in experiments as ATLAS or CMS as a function of the W' couplings to gauge bosons and its mass.

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