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Naturalness at the LHC

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Whether the Standard Model is natural or not is a question that has piqued the interest of theorists since its advent. R-parity violating natural supersymmetry is a BSM model which can evade new physics search strategies currently being performed by CMS and ATLAS. We propose a new search looking for a sbottom decaying to jets plus a W, designed to increase LHC coverage of the parameter space of this model. This work constitutes a step towards fully addressing the question of the naturalness of the electroweak scale.

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