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Zeroing in on Supersymmetric Radiation Amplitude Zeros

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Radiation amplitude zeros have long been used to test the Standard Model. Here, we consider the potential supersymmetric radiation amplitude zero in chargino-neutralino production, as could be seen at the upgraded LHC. We use the trilepton decay channel to investigate the wino content of the neutralino. Using a scan over the 19-dimensional parameter space of the phenomenological MSSM, we demonstrate how searches for radiation amplitude zeros can complement other methods of determining the neutralino mixing matrix.

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