

Supersymmetric Dark Matter after LHC Run I and Implications for Detection

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The current status of supersymmetric models of dark matter is reviewed. Prior to Run I at the LHC, there were great expectations for the discovery of supersymmetry at the LHC and dark matter in direct detection experiments. Unfortunately, there was no sign of supersymmetry in Run I (or Run II so far), nor any direct detection signal. I concentrate on models of supersymmetry inspired by Grand Unification and Supergravity. In this context, viable regions of parameter space are typically reduced to thin strips at increasingly high energy. Future prospects for direct and indirect detection will be discussed.

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