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Inverting the LHC with the ILC

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We present preliminary results from a survey of the ability of the ILC to distinguish MSSM models which produce almost identical signals at the LHC. We have included a full SM background sample and realistic detector simulation. Since the models we study are chosen essentially at random from the low-energy MSSM parameter space, this is the first such comprehensive survey unconstrained by assumptions about the SUSY breaking mechanism.

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