

## **A new technique for SUSY mass determination**

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A key ingredient in assessing whether or not a stable neutralino can explain the observed dark matter of the universe is the mass of the neutralino. For many SUSY decay chains, only mass differences can be well determined by conventional techniques leaving a large uncertainty in the absolute mass scale and therefore in the mass of the LSP neutralino itself. I describe a technique that can determine the neutralino mass to within a GeV or two in one of the standard SUSY decay chain scenarios for which only mass differences are well determined using other techniques.

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