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Optimal Invariant Mass Variables for SUSY-like Missing Energy Events

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In SUSY-like models with dark matter candidates, LHC events contain two decay chains, each terminating in an invisible particle, whose true energy and momentum are not measured in the detector. I will review and contrast some recently proposed invariant mass variables which are suitable for such event topologies. Each variable relies on a specific ansatz for the unmeasured individual 4-momenta of the invisible particles in the event.

Summary

Primary authors: Dr KIM, Doojin (Theory Division, CERN); Prof. MATCHEV, Konstantin (University of Florida); MOORTGAT, Filip (CERN); PAPE, Luc (CERN); Prof. MATCHEV, Konstantin (University of Florida); MATCHEV, Konstantin (University of Florida (US))

Presenters: Prof. MATCHEV, Konstantin (University of Florida); Prof. MATCHEV, Konstantin (University of Florida); MATCHEV, Konstantin (University of Florida (US))

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