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## Missing Transverse Energy Significance

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The missing transverse energy (MET) plays a fundamental role in the search for physics beyond the Standard Model at the LHC. We present an event-by-event assessment, the MET significance, of whether the observed MET is consistent with arising solely from detector-related limitations, such as measurement resolution and detection or reconstruction efficiency. We will introduce the formal definition of the significance, discuss our implementation, and show the results of performance studies of the particle flow MET significance in di-jet and  $W \rightarrow e + \nu$  data samples collected with the CMS detector.

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