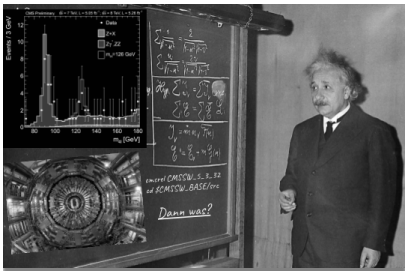

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Live Hands-on lesson: Physics objects II - Jets and MET

Thursday, 1 October 2020 08:30 (1h 30m)

Jets and missing transverse energy (MET) are critical for CMS physics analyses. They are more complex than most of the objects we discussed in the previous lesson, because they are reconstructed using multiple particle-flow candidates. After all candidates have been built from the tracks and energy deposits in CMS, they can be "clustered"using a variety of algorithms into composite objects called "jets". Missing transverse energy clusters, in a sense, all candidates in the entire detector: it is the negative vector sum of the momentum of all candidates.

In this lesson we will explore the basic utilities for jets and MET, how to identify jets that arise from interesting original particles such as bottom quarks, and possibly how to correct jets and MET for differences between data and simulation.

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