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Missing transverse momentum algorithm improvements for the ATLAS High Level Trigger for Run 3 for pp collisions BENJAMIN CARLSON, TAE MIN HONG, University of Pittsburgh, ATLAS COLLABORATION — The ATLAS missing transverse momentum trigger is susceptible to the impact of multiple proton-proton interactions (pileup) in the same event. To mitigate the impact of pileup, sophisticated subtraction schemes are utilized. During the Run 2 data-taking, these methods focused only on information from the calorimeter due to limited time available for the algorithms to utilize tracks. In this poster, I will present updates on the missing transverse momentum trigger algorithms utilizing tracking information for Run 3.

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