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Calibration of the NN Jet Vertex Tagger using Z to mu mu events in the ATLAS detector

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This work seeks to mitigate the increased pileup effects in Run 3 on the ATLAS detector by deriving efficiency scale factors and their corresponding uncertainties for pileup jet tagger: NN JVT. This is determined by looking at Z (ee/mumu)+jet events. This PU jet tagger has been tuned recently so further development of the software to allow for efficient determination of scale-factors is essential. As well as harmonisation of the calibration software. This work focus on R22 Run-2 and Run-3.

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