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Measurement of the b -tagging efficiency using events with jets containing muons SAMVEL KHALATYAN, U of Illinois at Chicago, CMS COLLABORATION — We present a measurement of the b -tagging efficiency using 32 pb^{-1} of data collected in 2010 with the CMS detector operating at the proton-proton LHC with $\sqrt{s} = 7 \text{ TeV}$. The measurement is based on data samples that have at least two reconstructed jets and a non-isolated muon close to one of the jets. The measurements are made as a function of the jet p_T and η . Results are presented for different b -tagging algorithms that identify b -jets based on the track's impact parameters or by fully reconstructing the secondary decay vertex.

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