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Differential branching fraction and angular anaysis of $\Lambda_b \to \Lambda\mu^+\mu^-$ decays

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The differential branching fraction of the rare decay $\Lambda_b \to \Lambda\mu^+\mu^-$ is measured as a function of q^2, the square of the dimuon invariant mass. The analysis is performed using data collected by the LHCb experiment, corresponding to an integrated luminosity of 3.0 fb^{-1}. This includes evidence for signal at q^2 below the square of the J/ψ mass with significance above 3σ. In the q^2 intervals where the signal is observed, angular distributions are studied and the forward-backward asymmetries in the dimuon and hadron systems are measured for the first time.

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