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Searching for intrinsic charm with LHCb

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The existence of non-perturbatively generated charm quarks in the proton is an open question almost as old as QCD itself. This so-called intrinsic charm has remained controversial since it was first proposed over 40 years ago. In this talk, I will discuss a LHCb study of Z-boson production in association with charm quarks that provides direct evidence for intrinsic charm. I will also discuss this measurement's impact on a recent global analysis of the charm content of the proton.

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