Properties of weakly-decaying bottom baryons

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Weakly decaying bottom baryons can in principle be clearly reconstructed from their decays into J/psi or other charmed hadrons. However, their properties like lifetimes and branching fractions have long been quoted only as averages over all states, as the only directly observed b-baryon was the Lambda_b. Only in year 2007, the two Tevatron experiments observed the Xi_b, and recently the D0 collaboration observed also the Omega_b. With the growing dataset accumulated by the Tevatron, it is becoming possible to study the properties of the b-baryons in more detail. In this talk we present a study of production and properties of the Xi_b and Omega_b baryons using 4.2 fb-1 of data accumulated by the CDF II experiment.

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