

B baryons at D0

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Although predicted by the quark model only a few of the B baryons predicted had been observed. D0 set out to search for two of those predicted, the Cascade_b and the Omega_b. The Cascade_b was observed in 2007 and the Omega_b in 2008. The search and observation was possible thanks to the reprocessing of events that include J/psi in such a way that the efficiency to reconstruct low pT charged tracks and charged tracks with large impact parameters was higher. This technique along with the use of multivariate techniques made possible the observation of both resonances. The Omega_b in the decay channel Omega + J/psi and the Cascade_b in Cascade J/psi.

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