



Séminaire du Laboratoire de l'Accélérateur Linéaire

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Mardi 1 Décembre 2015 à 11 :00

Exotic Pentaquark observation at LHCb

I will discuss the discovery of the two pentaquark states both decaying into a J/Ψ meson and a proton. The decay mode defines the quark content as $c\bar{c}$, u, u, d, and thus are called charmonium pentaquarks. These exotic structures are found in $\Lambda b \rightarrow J/\Psi K^* - p$ decays using a full amplitude analysis using 7 and 8 TeV pp collisions from 3 fb of data collected by the LHCb experiment. The two states will be shown to be of opposite parity and have spins $3/2$ and $5/2$. Finally different models of pentaquark structure will be discussed.

Auditorium Pierre Lehmann du LAL - Bât. 200, Orsay

Thé et café seront servis 5 mn avant le séminaire



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