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Di-charmonium studies in ATLAS

A search for potential tetraquarks decaying into a pair of charmonium states will be presented. Two different decay channels, J/psi + J/psi -> 4mu and J/psi + psi(2S) -> 4mu, are studied. Backgrounds are estimated with a hybrid data-driven and MC-based approach. The statistical significance of possible excesses in the di-J/psi and J/psi+psi(2S) channels will be discussed in detail.

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