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All charm tetraquarks and recent heavy flavor results at CMS

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With the large dataset and excellent detector performance, CMS has made great progress in heavy flavor results. Recent results include in both (exotic) hadron studies, and CP violation and rare decay studies. The spin-parity of all charm tetraquark candidates observed in J/psiJ/psi mass spectrum is found to be prefer 2++. The X(7100) is first observed in J/psiJ/psi channel, and the X(6900) is first observed in J/psiPsi(2S) channel, both excessing 5sigma. The masses of B+, *B*0, and Bs*0 are precisely measured via their exclusive reconstructions. CP violating parameters in Bs0->J/psi phi are measured and a 3.2 sigma evidence of CP violation is found. The rare decay of D0->mu+mu- is searched, and the association production of Y(1s) and Z boson is studied.

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