

Production of exotic charmonium in heavy ion collisions

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Abstract

I will present an introduction to the physics of exotic charmonium, i.e., mesonic states which are not simply charm - anticharm configurations. I will describe the most popular configurations proposed for these states: tetraquark and meson molecules. I will then show how these states can be produced in hadronic collisions and in heavy ion collisions, both in central and peripheral reactions. I will present our latest results on the subject, published in arXiv:1704.08781; arXiv:1610.06604; arXiv:1604.07716 ; arXiv:1511.05209 and arXiv:1405.7583. Considering the nature of the audience, mostly of students, I will try to make this presentation as pedagogical and stimulating as I can.