

Production of Tetraquarks at LHC

Since ten years ago a host of exotic resonances have challenged the usual quarkonium picture. A number of ideas have been put forward to explain these new states, but a comprehensive framework is still missing. We present here results on $X(3872)$ production in $pp(\bar{p})$ collisions obtained with Monte Carlo hadronization methods and illustrate what can be learned from their use to improve our understanding of exotic states. A comparison with antideuteron production is proposed. Hadronization might be the key to solve the problem of the extra states expected in diquark-antidiquark models.

Authors: PILLONI, Alessandro (Sapienza U.); GUERRIERI, Andrea (Università di Roma "Tor Vergata"); POLOSA, Antonio (Università La Sapienza, Roma - Italy); PICCININI, Fulvio (Università e INFN (IT))

Presenter: PILLONI, Alessandro (Sapienza U.)