Contribution ID: **37**   Type: **Oral report**

Hadronic interactions of the Y-meson

We calculate the cross sections for reactions of the Y-meson with light mesons. We use effective Lagrangians to calculate the production cross section and also the absorption cross section in the corresponding inverse processes. We considered a mesonic formfactor scheme for the introduction of formfactors for the SU(5) chiral meson Lagrangian approach to the Y breakup cross sections by pion and rho meson impact. The obtained cross sections are used as input to solve the rate equation which allows us to follow the time evolution of the multiplicity. The relevance of our study to heavy ion collisions is discussed.

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Session Classification: Will not participate

Track Classification: Section 4. Relativistic nuclear physics, elementary particle physics and high-energy physics.