



Contribution ID : 54

Type : **Oral talk**

## **Relativistic theory of paired heavy meson and baryon production**

*Thursday, 1 December 2022 12:30 (15)*

We study the processes of the paired heavy meson and baryon production in electron-positron annihilation, gamma-gamma interaction and decays of the Higgs boson. Using the perturbative Standard Model and relativistic quark model we construct relativistic amplitudes and cross sections. Relativistic corrections connected with the relative momenta of heavy quarks are calculated in the production amplitudes and wave functions of the bound states. Numerical results for different production cross sections are presented.

**Primary author(s)** : MARTYNENKO, Alexei (Samara U.)

**Co-author(s)** : Prof. FAUSTOV, Rudolf; Mr. MARTYNENKO, Fedor (Samara National Research University)

**Presenter(s)** : MARTYNENKO, Alexei (Samara U.)

**Session Classification** : High Energy Physics: Theory

**Track Classification** : High energy physics: theory