

1 **Pion femtoscopy in p+Au and d+Au**
2 **collisions at $\sqrt{s_{NN}} = 200$ GeV in the**
3 **STAR experiment**

4 Eugenia Khyzhniak (for the STAR Collaboration)¹

5 ¹ *National Research Nuclear University MEPhI, Kashirskoe highway*
6 *31, Moscow, 115409, Russia*

7 In heavy-ion collisions particle-emitting source appears. It is impor-
8 tant to understand how the emission source size would change with differ-
9 ent collision species. It can be studied using femtoscopy technique, since
10 femtoscopy allows to measure spatial and temporal characteristics of the
11 particle-emitting source.

12 In this talk, we present one-dimensional source radii of charged pions
13 obtained for p+Au and d+Au collision systems at $\sqrt{s_{NN}} = 200$ GeV. Radii
14 dependence on transverse momentum of the pion pairs will be discussed.