

XXV International Baldin Seminar on High Energy Physics Problems  
"Relativistic Nuclear Physics and Quantum Chromodynamics"



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on High Energy Physics Problems  
*Relativistic Nuclear Physics & Quantum Chromodynamics*  
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## Study of the $\pi^+$ and $K^+$ production in ion-ion collisions at 3.2 GeV/n at the Nuclotron

*Tuesday, 19 September 2023 15:10 (20 minutes)*

In the BM@N experiment at the Nuclotron accelerator, the production of  $\pi^+$  and  $K^+$  mesons in collisions of argon ions with an energy of 3.2 GeV with solid targets of C, Al, Cu, Sn, and Pb was studied. Yields are obtained in kinematic variables in terms of rapidity and transverse momentum. The estimation of the parameters of inverse slopes and multiplicities is performed. The results are compared with microscopic transport models, as well as with data from other experiments.

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