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Xi baryon production via hyperon resonances in sub-threshold heavy-ion collisions

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We have proposed a mechanism for Xi baryon production in proton-nucleus collisions in which hyperon resonances and anisotropic hyperon production played a role. Parameters of the model were chosen to account for the observed Xi multiplicity by the HADES collaboration (GSI, Darmstadt) in sub-threshold p+Nb collisions.

[1] In the present contribution, we investigate whether a similar mechanism can explain the high Xi yield found by HADES in Ar+KCl collisions at $\sqrt{s_{NN}}=2.61$ GeV.

[1] M. Zétényi, Gy. Wolf, Phys. Lett. B 785 (2018) 226-231.

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