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Cumulative production of nucleons by heavy baryonic resonances in proton-nucleus collisions

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We investigate nucleon production in proton-nucleus collisions outside the kinematical boundary of proton-nucleon reactions.
The maximal energy of protons emitted in the backward direction is estimated.
We suggest that cumulative nucleons are produced by heavy baryonic resonances created in p+A collisions due to successive collisions with nuclear nucleons.
We also compare theoretical predictions to the results of Ultra Relativistic Quantum Molecular Dynamics simulations.

Author: Ms PANOVA, Oleksandra (Taras Shevchenko National University of Kiev, Kiev, Ukraine)

Presenter: Ms PANOVA, Oleksandra (Taras Shevchenko National University of Kiev, Kiev, Ukraine)