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Hadroproduction on nuclei: inclusive cross-sections and parametrizations

Inclusive hadron production cross-sections of the interactions of few GeV/c protons and charged pions with nuclei are of interest for the understanding of the underlying physics, the modeling of Monte Carlo generators of hadron-nucleus collisions, and for the design of neutrino beams. Precise and comprehensive double-differential inclusive hadron production cross-sections from Be, C, Cu, Ta and Pb target nuclei are presented and their characteristics discussed, with emphasis on their dependence on the nuclear mass number.

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