Lambda baryon production in heavy-ion collisions at the NA61/SHINE experiment Yuliia Balkova for the NA61/SHINE Collaboration University of Silesia in Katowice, Poland yuliia.balkova@cern.ch



NA61/SHINE two-dimensional scan

NA61/SHINE performed a collision energy and system size 2D scan to study the phase diagram of strongly interacting matter. Strangeness production $(K^{\pm}, \Lambda, K_s^0 \dots)$ is one of the most valuable probes of the onset of deconfinement.

A production in 0-10% central Ar+Sc collisions







Schematic layout of the NA61/SHINE experiment



Strangeness enhancement

