

## The efficiency of STS-CBM-ROOT for reconstructions of Lambda and Sigma+(1385) hyperons from the experimental and the UrQMD data in p+C reaction at 10 GeV/c

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This experimental data for events with  $\Lambda$  hyperons in p+C reaction at 10 GeV/c is compared to the UrQMD model as a first step that there will be one of basis for study of multi strange hyperons and exotica productions with high statistics in heavy nucleus collisions . The experimental data with  $\Lambda$  hyperons was used as generator for GEANT - STS-ROOT what have been obtained on base of stereo photo from the 2-m propane bubble chamber with  $4\pi$  geometry for p + C reaction at momentum 10 GeV /c . By using of the STS-ROOT software for CBM (FAIR) with this experimental data we obtained efficiencies of reconstruction for  $\Lambda$  and  $\Sigma^{*+}(1385)$  hyperons. The experimental data was compared with the UrQMD model for basic kinematic parameters. Main part of  $2\text{GeV}/c$  ( $p_{\text{min}} = 0.6\text{GeV}/c$ ) and  $Z_v < 4$  cm . These analysis will allow to develop of new criteria, trigger , methods and algorithms for effective study of exotic resonances and CBM properties with strangeness .

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