

Review of strangeness physics programme at HADES –past and future perspectives

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HADES is a versatile spectrometer for studying various aspects of low energy QCD operating at the SIS18 synchrotron located at the GSI/FAIR in Darmstadt, Germany. Primarily designed to study dilepton production in proton and heavy ion induced collisions with its capability to identify also hadrons become an excellent tool to explore strange hadrons production. Λ , Σ , $\Xi(1321)$, $\Lambda(1405)$, $\Lambda(1520)$, $\Sigma(1385)$ hyperons, kaons and ϕ mesons were studied in the few AGeV region providing many interesting results on strangeness production in elementary and heavy ion collisions in the few AGeV beam energy range. In this talk highlights from former studies of elementary collisions and opportunities emerging from a recent high statistics p+p run at 4.5 GeV will be presented.

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