

Hadron Properties in the Nuclear Medium - the PANDA Program with $\bar{p}A$ Reactions

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The PANDA [1,2] experiment at the future FAIR [3] accelerator complex at Darmstadt, Germany, is dedicated to the study of antiproton annihilations on nucleons and nuclei.

The investigation of hadron properties in the nuclear medium, studied already in the light- and strange quark sector, will be extended to the mass region of the charm quark. Here, PANDA will study the in-medium properties of D mesons and charmonium states. Furthermore, elementary reactions of D mesons with (bound) nucleons can be investigated, and the behaviour of antihadrons (like \bar{p} , \bar{K} , $\bar{\Lambda}$) in matter as well.

This contribution will give an overview on the physics case and some experimental issues on this program.

[1] <http://www.gsi.de/panda/>

[2] P. Hawranek, contribution to this conference

[3] <http://www.gsi.de/fair/>

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