

Precision spectroscopy of pionic atoms and chiral symmetry in nuclei

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Collaboration

piAF

Abstract content

Precision spectroscopy of deeply bound pionic atoms with relatively heavy nuclei is known to provide information on the partial restoration of the chiral symmetry in nuclear medium. We have conducted a series of experimental spectroscopy of pionic atoms with unprecedented precision by using ($d, {}^3\text{He}$) reactions on tin isotopes. Recent analysis results are reported in the presentation.

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