

Density shift and broadening of the transition lines in pionic helium

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We report on the theoretical estimates of the density shift and broadening of selected transition lines in pionic helium evaluated in the semiclassical approach, earlier successfully applied to the calculation of the density effects in antiprotonic helium spectroscopy. These results are expected to help reduce the uncertainty of the oncoming laser spectroscopy experiments with pionic helium.

Autor: BAKALOV, Dimitar (Institute for Nuclear Energy and Nuclear Energy, Bulgarian Academy of sciences, Sofia 1784, Bulgaria)

Co-Autor: SZALEWICZ, Krzysztof (University of Delaware Physics & Astronomy 121 Sharp Laboratory Newark, DE 19716, USA)

Vortragende(r): BAKALOV, Dimitar (Institute for Nuclear Energy and Nuclear Energy, Bulgarian Academy of sciences, Sofia 1784, Bulgaria)

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