

# Laser Spectroscopy of the Heaviest elements

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Laser spectroscopy of the heaviest elements allows the study of the evolution of relativistic effects on their atomic structure. In addition, nuclear properties such as spins and nuclear moments can be obtained. In our experiments at the GSI we exploit the Radiation Detected Resonance Ionization Spectroscopy in a buffer-gas filled stopping cell and use a two-step photoionization process to search for the 1P1 level in  $^{254}\text{No}$ . In this poster the results from a recent measurement campaign will be presented.

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