Virtual Superheavy Elements Seminar

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"Status and prospects of Laser Spectroscopy of the heavi elements"

Laser spectroscopy is a powerful tool to unveil fundamental atomic and nuclear properties by probing the atomic structure in detail with laser light. Nevertheless the application of this techni to the heaviest elements remains difficult due to low available amounts. In this presentation the challenges in laser spectroscopy of the heaviest elements will be discussed in view of recent lase spectroscopic experiments in einsteinium (Z=99), fermium (Z=100) and nobelium (Z=102) isotope performed at GSI, Darmstadt and Mainz university. Besides the present status of laser spectrosco studies the perspectives for experiments on superheavy elements will be discussed.

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