

Till 120! Triumph and Twilight of Atomic Spectroscopy at NIST

Yuri Ralchenko

Associate, National Institute of Standards and Technology, Gaithersburg, MD 20899, USA

The 120-year-long history of atomic spectroscopy at NIST has come to completion with the recent termination of its Atomic Spectroscopy Group (ASG). Over many decades, NIST spectroscopists produced unique critically evaluated data for atomic parameters, performed exceptionally precise measurements of spectra from neutral to 70-times ionized atoms, developed powerful methods for diagnostics of diverse terrestrial and astrophysical plasmas. This talk will present an overview of ASG achievements over years with emphasis on the most recent work and offer an outlook for its path ahead.