

An updated Multi Ion Counting System - Introduction to the latest nine IC system on the NuTIMS

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To address the increasing demand for full-size secondary electron multipliers (SEMs) within the NuTIMS instrument, a new and enhanced design has been developed. This updated configuration includes improved standard vacuum pumping capabilities, with optional enhancements for further optimization. Additionally, a newly integrated zoom lens system enables precise alignment, facilitating the measurement of masses ranging from 232 to 246 within a single analytical routine. Furthermore, the instrument incorporates additional filters designed to mitigate tailing effects, ensuring improved analytical performance and data fidelity.