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Alternative negative electron affinity activation studies at HERACLES

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A new growth chamber at the High Electron Average Current for Lifetime ExperimentS (HERACLES) beam-line at Cornell has been installed enabling Negative Electron Affinity (NEA) activations of GaAs using Cs-Sb-O and Cs-Te-O recipes. These activation recipes have been shown to be more robust against vacuum poisoning when measured at low voltages and currents. In this proceeding we present charge lifetime measurements of these recipes when operated in a high voltage, high current electron gun.

Footnotes

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