10. Annual MT Meeting



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MLS II Light Source Upgrade

The Metrology Light Source (MLS) is a compact double-bend achromat lattice that operates at an energy of 630 MeV and produces synchrotron radiation in the terahertz to the extreme UV spectral range for metrology and radiometric applications. An upgraded light source MLS II has been developed as an 800 MeV electron storage ring with flexible operating modes, including a standard user mode for low natural emittance and a low-alpha mode for short electron bunch. Three lattice options with different circumferences and number of cells have been designed for the MLS II upgrade. Studies on the linear optics and nonlinear dynamic optimization of all lattice options have been conducted and presented.

Speed talk:

Normal speed talk selection

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