



Contribution ID: 145

Type: **Poster**

P73 - Design for RARAF nanoprobe

Friday, 11 July 2014 13:00 (1 hour)

We are planning to install a sub-100 nanometer single-cell irradiator at RARAF of Columbia University. It will consist of an electrostatic multiplet first stage and a superconducting solenoid final lens. In this paper I will discuss the various design calculations and expected performance of the system. Extensive ray-tracing calculations including grid-shadow studies will be reported leading to an optimized system with well understood intrinsic aberrations and potential parasitic ones.

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Session Classification: Poster Session with Cheese and Wine