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Study of Photon Emission with the Fission Event Generator

FREYA¹ RAMONA VOGT, Lawrence Livermore Natl Lab, JORGEN RANDRUP, Lawrence Berkeley Natl Lab — The event-by-event fission model **FREYA**² is employed to study photon observables. The model has been expanded beyond the simple statistical photon emission reported previously³ to include the discrete RIPL-3 lines. We update these prior results and discuss the sensitivity of the results to the **FREYA** input parameters sensitive to photon observables⁴.

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²J. M. Verbeke, R. Vogt and J. Randrup, *Comp. Phys. Comm.* **191**, 178 (2015). **FREYA2.0.2**, with the updates discussed here, has also been submitted to *Comp. Phys. Comm.*

³R. Vogt and J. Randrup, *Phys. Rev. C* **87**, 044602 (2013).

⁴R. Vogt and J. Randrup, in preparation.

Ramona Vogt
Lawrence Livermore Natl Lab

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