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Advanced photon beams from a seeded FEL

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The injection of a seed to initiate the FEL amplification in a free electron laser is a concept initially introduced to improve the source spectral brightness. This concept was first demonstrated at BNL (USA). A few experiments carried out later have shown the possibility to extend the method to reach VUV wavelengths and FERMI was built as a facility exploiting these methods to provide to users coherent light down to the soft X-ray range of the spectrum from a seeded FEL.

After about thirteen years of operation of FERMI, a number of other possibilities which go beyond the simple

An overview of FERMI will be provided.

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