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Spectral Shaping at the SwissFEL Soft X-ray Beamline Athos

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Current developments of Free-electron lasers are going beyond the limited temporal and spectral coherence of Self-amplified Spontaneous Emission (SASE) FELs. The soft X-ray beamline Athos at SwissFEL addresses this by its unique layout and operation modes. This presentation gives an overview on the expected control of the spectral content in the FEL pulse from fully coherent signals with a narrow bandwidth to an ultra-wide bandwidth of the order of 10 percent.

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