

X-radiation from fourth-generation storage rings

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Synchrotron light is characterized by its high spectral intensity, small source size, and low divergence, encapsulated in the figure of merit known as ‘brilliance’. The next generation of synchrotrons, called ‘diffraction-limited storage rings’ (DLSRs) promises reductions in the source size and divergence that should combine to improve the brilliance by up to two orders of magnitude. In this talk, I will provide a didactic overview of the machine physics that has allowed this development and how this impacts on synchrotron science, in particular with emphasis on the science envisaged at the SLS after completion of its upgrade in 2025.”

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