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## The SLS 2.0 Upgrade

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The SLS was for over a decade the benchmark synchrotron facility regarding its performance relative to the theoretical optimal value, given the machine parameters. However, with the advent of a new-generation of storage rings, dubbed “diffraction-limited storage-rings” or DLSRs [1], it has become imperative to upgrade the SLS in a likewise manner. In this didactical talk, I will explain the background concepts of DLSRs and the approach adopted by the SLS [2]. This will be followed by examples of science at SLS that will profit most from the upgrade program.

References

[1] Philip Willmott. Introduction to Synchrotron Radiation – Techniques and Applications (2nd edition) (John Wiley & Sons Ltd, 2019).

[2] A. Streun, T. Garvey, L. Rivkin, V.Schlott, T. Schmidt, P. Willmott, and A. Wrulich. J. Synch. Rad. 25 (2018) 631.

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