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SLS 2.0 storage ring components overview before installation

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The Swiss Light Source SLS will have a 15 months long shutdown starting in October 2023 in order to install the new storage ring SLS 2.0. While the procurement of large series of components like magnets, power supplies, RF, vacuum chambers, ... has started, the design of more specific components like the thin septum, undulators or collimators, is close to completion. The main difficulties and challenges of SLS 2.0 are common to other diffraction limited storage rings: cross talk issues due to the very short distances between magnets and especially with permanent magnets, heat dissipation issues in the small aperture vacuum chambers due to synchrotron radiation and RF heating and in general beam instabilities issues due to wakefields perturbations. Components have been designed to withstand these constraints and this paper will give an overview of the key components design and first tests before installation.

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Footnotes

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