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Impedance characterization of the RF-shielded bellows for Sirius SRF cavities

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Sirius is a 4th generation synchrotron light source at the Brazilian Center for Research in Energy and Materials in Campinas, Brazil. The storage ring is currently operating with a normal conducting seven-cell cavity and an upgrade of the whole RF plant is foreseen to take place in the beginning of 2024. Two CESR-B superconducting cavities will be installed in the storage ring and comb-type RF-shielded bellows will be placed in the 100 mm diameter sections. This paper presents the results of the bellows wakefield simulations carried on to estimate the power deposited by the beam, the thermal simulations and the status of the prototype.

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Footnotes

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Yes

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