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Upgrade of the medium energy dump geometry for the SPIRAL2 single bunch selector

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The medium energy beam transport (MEBT) of the SPIRAL2 superconducting linac contains a single bunch selection system equipped with a 7.5 kW beam dump (SBS dump). This device, originally designed with a long plane slope to decrease the power density so that the maximum operating temperature was 170 °C, was impacted by Coulomb scattering generating two side effects: heating of the downstream beam transport components and degrading of the beam current measurement uncertainty. The paper relates the way these two problems were solved.

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Footnotes

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Yes

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