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Impact of the insertion devices operation on the ESRF-EBS equilibrium emittance

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The new EBS machine was commissioned in 2020 with a targeted nominal beam emittance of 139pm.rad in the horizontal plane. The radiated energy in the 70 insertion devices present from the restart was expected to change the equilibrium emittance. This paper presents the prevision and the measurements performed as a function of the total radiated power in the machine. The comparison shows that the non zero dispersion present in the insertion devices has a visible impact on the emittance reduction.

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Footnotes

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