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Status of the ESRF-EBS 352 MHz RF system

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The first high energy 4th generation low emittance ring, the Extremely Brilliant Source EBS, is in user operation since August 2020. The existing SSA and klystron transmitters were kept to power the 13 new mono-cell HOM damped EBS cavities. Ten new 110 kW SSAs have recently been ordered from JEMA-France to replace the more than 30 years old klystron transmitters until end 2026 and the site preparation for their installation is in good progress. The design of normal conducting 4th harmonic RF cavities has also evolved and is now close to being finalized. The implementation of an active 4th harmonic RF system at the ESRF is scheduled after completion of the 352 MHz SSA project.

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