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SOLEIL RF SYSTEMS : OPERATIONAL EXPERIENCE, UPGRADES, R&D'S

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In the SOLEIL storage ring, two cryomodules provide to the electron beam an accelerating voltage of 3-4 MV and a power of 575 kW at 352 MHz. Each cryomodule contains a pair of superconducting cavities, cooled with liquid Helium at 4.5 K, which is supplied by a single 350 W cryogenic plant. The RF power is provided by four solid state amplifiers (SSA), each delivering up to 180 kW. The parasitic impedances of the high order modes (HOM) are strongly mitigated by means of four coaxial couplers, located on the central pipe connecting the two cavities. We report about the operational experience with this system, its upgrades and more generally about R&D's, carried out at SOLEIL in the SSA field.

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