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# RF Technology for SOLEIL II

*Wednesday, November 8, 2023 11:00 AM (20 minutes)*

SOLEIL II is currently advancing through the conceptual design phase. Within the realm of radio frequency (RF) activities, our focus has been on enhancing the High-Power RF Solid-State Amplifier, aiming to boost reliability and minimize energy consumption. To achieve this, we've successfully fabricated and tested a prototype of the amplifier at SOLEIL/Booster. In addition, we've developed and tested a compact Digital Low-Level RF (LLRF) system. Furthermore, our research extends to the impedance analysis of a 4th-order Normal Conductive (NC) passive cavity, similar in type to the ESRF design. This investigation promises to contribute valuable insights to our ongoing work.

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