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Powering RF for FCC-ee

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This presentation addresses the electrical powering of RF tubes, specifically tristrons and solid-state amplifiers, for both the FCC-ee collider and booster. The baseline solution currently under consideration is a centralized system delivering 130 MW through a high-power converter. We present the architecture and characteristics of the proposed converters and share insights gained from a technical visit to a comparable infrastructure in Spain. The different powering stages of the RF system are outlined, with particular emphasis on the challenges and constraints introduced by the unique power modulation requirements of tristron operation in the collider.

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