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Baseline & Cavity options for FCC-ee

Tuesday 29 June 2021 13:00 (20 minutes)

In this talk we will remind the baseline configuration of the SRF system for FCC-ee (booster and collider rings).

We will also present new SRF cavity designs like spoke cavities and coaxial resonators, which have been explored recently and compared to the baseline design.

A new elliptical 2-cell cavity configuration equipped with slotted waveguides, called SWELL cavity is finally introduced, operating at the intermediate frequency of 600 MHz. This new and innovative SWELL cavity concept has a huge potential to simplify the installation scheme of the overall RF system. The main features and the development plan of the SWELL cavity are presented.

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