



Contribution ID: 209

Type: **Poster (in person)**

ScandiNova modulators for electron-driven positron source in ILC project

Monday, 8 July 2024 17:40 (20 minutes)

The International Linear Collider (ILC) is an electron-positron linear collider to explore physics beyond the Standard Model of particle physics in the center of mass energy of 250 GeV to 1 TeV.

In the TDR, to make a positron, a helical undulator of more than 150 m long will be planning to insert in the main electron linac.

And in parallel, to mitigate the risks associated with the project, a backup system by using electron-driven positron source has been studying. In this paper, we will describe the solid state modulator with klystron, called "RF unit", which maybe possible to realize the ILC positron source.

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Session Classification: Posters

Track Classification: Accelerator: Normal Conducting RF