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Development of SRF technology at KEK-iCASA

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KEK-iCASA has developed the SRF technology for the accelerators. High gradient SRF accelerator, such as ILC, is one of target. High-Q/high-gradient R&D has performed to improve SRF cavity performance. Beam operation of STF-2 accelerator achieved the ILC specification. Another target is efficient operation of CW SRF accelerator. cERL operation has carried out to realized high current CW operation. Nb3Sn SRF accelerator development is also on-going toward the future compact CW SRF accelerator.

Speaker's Name

Kensei Umemori

Speaker's Title

Prof.

Speaker's Gender

Man

Speaker's Pronouns

Speaker's Preferred name (if any)

Primary author(s) : Prof. UMEMORI, Kensei (KEK)

Presenter(s) : Prof. UMEMORI, Kensei (KEK)

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