

Development Status of new 3-MeV RFQ for KOMAC

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A 3-MeV RFQ for KOMAC has been operated for almost 20 years and its performance has been degraded gradually in terms of arcing and beam transmission. We have designed new RFQ with some modifications to replace the current one. Main features of modifications include longer gentle buncher section, which results in better stability at high current. In addition, we determined to remove resonant coupling plate located in the middle of the cavity and reduce the number of section from 4 to 3. Main parts of the RFQ are under fabrication and the final assembly by using vacuum brazing will be conducted in-house. The details of the development status of the new RFQ for KOMAC will be given in this presentation.

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Paper submission Plan

Yes

Best Presentation

No

Contribution track

ICABU WG1. Accelerator Systems

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