



Contribution ID: 1837 Contribution code: WEPA165

Type: **Poster Presentation**

Development of RF Fundamental Coupler for 325 MHz Superconducting Single Spoke Resonator

Wednesday, 10 May 2023 16:30 (2 hours)

An RF Fundamental Power Coupler(FPC) designed to operate under 7 kW CW for 325 MHz superconducting(SC) single spoke resonator(SSR) in the high energy SC Linac of the RAON. A prototype FPC has a coaxial shape with an impedance of 98 ohm and an outer radius of 36 mm. It is checked that the MP exists within the SSR operating range. Reduction or elimination of the MP is estimated applying DC voltage at the center conductor of the FPC. Detailed test setup and test results are presented.

Funding Agency

This work was supported by the Rare Isotope Science Project of Institute for Basic Science funded by Ministry of Science and ICT and NRF of Korea (2013M7A1A1075764)

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: DO, Heejin (Institute for Basic Science)

Co-authors: JUNG, Hoechun (Institute for Basic Science); HYUN, Myung Ook (Institute for Basic Science)

Presenter: DO, Heejin (Institute for Basic Science)

Session Classification: Wednesday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability: MC7.T07: Superconducting RF