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Experience with PSI's Main Ring Cyclotron Long Radial Probe

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A Long Radial Probe is a device that measures the transverse beam profile in a cyclotron along its radius. The current iteration of the probe was installed in the PSI Main Ring Cyclotron in 2022. After a successful start, the probe suffered from a strong coupling to RF-fields leaking from the cavities and breaking the carbon fibres. A series of measures were attempted and produced ambivalent outcomes. This paper describes the challenges and presents the experiments and thermal calculations which led to solving the RF-heating issue.

Footnotes

Funding Agency

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Yes

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