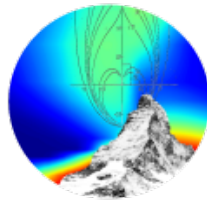


ICFA mini-Workshop on "Mitigation of Coherent Beam Instabilities in particle accelerators" MCBI 2019



MCBI

Contribution ID: 69

Type: **not specified**

*** TMCI, why is the horizontal plane so different from the vertical one**

Tuesday 24 September 2019 19:50 (10 minutes)

Based on the recent work of R. Lindberg on transverse collective instabilities (PRAB 19, 124402,(2016)) it was observed that if the ratio of quadrupolar to dipolar impedance is equal to -1, there is no TMC-instability. This relationship is actually fulfilled by horizontal resistive wall impedance. "Headtail" simulations were carried out to check if this formal observation could be confirmed.

Additionally the effect of radial modes on the TMCI threshold was studied.

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Session Classification: Poster Session