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## Beam based measurements of Titanium coated ceramic chamber at NSLS-II

*Thursday, 23 May 2024 16:00 (2 hours)*

We summarize recent experimental studies of the impedance and beam-induced heating of titanium-coated ceramic vacuum chambers used in the NSLS-II injection kickers. We installed a spare chamber (SN003) in test section C01, demonstrating that beam-induced power is effectively dissipated in the titanium coating. Equipped with 12 temperature detectors, we measured temperatures and beam currents during operational fill patterns. The results, highlighting the heating of chamber, will be thoroughly presented.

### Footnotes

### Funding Agency

### Paper preparation format

LaTeX

### Region represented

North America

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