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## Practical recipes for Phase Space Reconstruction and Tune Measurements using TBT BPMs

The motivation of this poster is to encourage discussion and the exchange of practical experience among workshop participants on techniques for reconstructing and visualizing key beam dynamics parameters relevant to Slow Extraction. We present the methods applied during the 2025 Slow Extraction commissioning at Fermi lab for tuning the resonant extraction phase based on the beam trajectory in phase space. In addition, we describe the tools developed for precise reconstruction of the rapidly varying machine tune using turn by turn BPM data.

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