Contribution ID: 4 Type: Full presentation (15 minutes + 5 minutes Q&A)

# Fast ORM Measurement for Australian Synchrotron

Friday, 28 May 2021 11:00 (20 minutes)

The fast ORM measurement system would be capable of reducing the measurement time of the storage ring's corrector to position response matrix from 15 minutes down to around 1 minute.

The fast ORM measurement system is designed to generate sinusoidal excitation of the electron beam with or without FOFB correction data for fast response measurements. It is also equipped with a white noise generator for closed loop gain analysis. With a much larger FPGA, the FOFB correction data can be encoded as UDP packets and sent to IOCs for archiving and offline analysis.

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Session Classification: Morning Session

Track Classification: Upcoming and Current Developments