

FAST/IOTA SCIENTIFIC PROGRAM MEETING

Tuesday, 14 June 2016 - Tuesday, 14 June 2016

OTE (IARC)

Book of Abstracts

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Director's Welcome and Group Photo

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Commissioning and Plans of the IOTA Electron Injector

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Introduction- IOTA/FAST Facility Plan, Timeline and Meeting Goals

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Vladimir will give a brief Introduction of the IOTA/FAST Facility Plan and Review the Timeline and Goals of the meeting.

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Status of the RFQ Injector Commissioning

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Plans and Status for X-rays Generation via Channeling with 50 MeV Electrons

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Status of the IOTA Ring Construction

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Simulations of the IOTA Integrable Optics Experiment

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IOTA electron lens: nonlinear optics, cooling, and space-charge compensation

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Results of the Electron Column SCC Simulations

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Status of the OSC Experiment Preparations

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IOTA Optics Update: Flexibility for Experiments

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On the injection system for IOTA-ring based on the electron beam accelerated by a laser radiation

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Discussion on the IOTA/FAST Experimental Program Progress - Summary and Closeout

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Discussion on IOTA / FAST Experimental Program Progress - Summary and Closeout**Corresponding Author:** shiltsev@fnal.gov

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TOUR IOTA FAST Facility

Shuttle to New Muon Lab (NML)

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Simulating the Compensation of Space Charge Effects for Intense Beams in Accelerator Lattices: a New Opportunity for Collaboration**Corresponding Author:** chadmitchell@lbl.gov

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Electron/Electrino Double Slit Experiment in IOTA**Author:** Roger Dixon¹¹ *Fermilab***Corresponding Author:** roger@fnal.gov

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Progress of the TESLA-type Cavity Transfer Matrix measurement at FAST**Corresponding Author:** aliaksei@fnal.gov

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FACET Science Program- Opportunities at FAST**Corresponding Author:** yakimenk@slac.stanford.edu

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UMER Experimental Program News

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A System for Synchronization of Electron Bunches and Laser Pulses using a Photoconductive Antenna

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Gamma-ray Production via Inverse Compton Scattering with 300 MeV Electrons

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