

EICUG 2nd Detector Meeting

Tuesday, 6 December 2022 - Thursday, 8 December 2022

CFNS

Book of Abstracts

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Session block

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Prospects for exclusives / GPDs at the EIC

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Exclusive vector meson production at the EIC

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Double Parton Distributions

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Exclusive production of dileptons

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First measurement of timelike Compton scattering

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Hard exclusive reactions: dilepton channels

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Near-threshold production of heavy quarkonia

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Relativistic Heavy Ions initial state

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Processes on light nuclei

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Coherent Diffraction with A-1 tagging

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EIC diffractive / exclusive physics requirements

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Nuclear PDFs/diquark correlations

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Silicon tracking

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KLM

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Pomeron dynamics as a probe of nuclear structure

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Small-x DIS: From diffractive/elastic scattering to nuclear TMDs

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Exclusive Reactions with Nuclei

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Rare isotopes at the EIC

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Welcome

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Introduction

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The motivation for two detectors at a collider

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Two detectors at the EIC - cross checks

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EIC - two detector operations

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Opportunities enabled by a 2nd focus

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IR8 implementation

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TMDs Multiparticle final states

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TMDs at the EIC

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TMDs

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Correlations and quantum entanglement in SIDIS

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Target fragmentation (theory)

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Current-target correlations in SIDIS

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Diffraction longitudinal structure function at the EIC

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Measurements of the Pion and Kaon Form Factor at the EIC

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Inclusive physics - opportunities and requirements

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PDFs/GPDs on Lattice

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Uncertainty Quantification in ML

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ML for the CFF to GPD Inverse Problem

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Jets (theory)

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Jets in nuclei

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Project Update

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Probing the initial state with vector meson production and exclusive dijets

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Dijet azimuthal correlations: a window into gluon saturation at the EIC

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Probing the initial state with vector meson production and exclusive or inclusive dijets

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Uncertainties from global analyses

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Longitudinal/Transverse separation in DVES

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Day 1 Recording

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Day 3 Recording

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