

## **Session Program**

**24-26 Apr 2023**



## **US FCC Workshop**

### ***Tuesday morning parallel 1***

Brookhaven National Laboratory, Building 510 / Physics

# Tuesday 25 April

08:30

## Tuesday morning parallel 1: Accelerator MDI and IR Magnets

**Session** | **Location:** Small Seminar Room | **Conveners:** Vladimir Shiltsev, Tor Raubenheimer, John Seeman

08:30–08:50 **Challenges of the FCC-ee MDI**

**Speaker**  
Manuela Boscolo

08:50–09:05 **Tools and approach to design of the PEP-II IR**

**Speaker**  
John Seeman

09:05–09:20 **Tools and approach to design of the EIC IR**

**Speaker**  
Angelika Drees

09:20–09:40 **Discussion of potential US engagement**

09:40–09:55 **FCC-ee IR magnet challenges**

**Speaker**  
Brett Parker

09:55–10:10 **EIC IR Magnet design and challenges**

**Speaker**  
Holger Witte

10:10–10:30 **Discussion of potential US engagement**

10:30

08:30

## Tuesday morning parallel 1: Detectors

**Session** | **Location:** Large Seminar Room | **Conveners:** Sarah Eno, Chris Tully

08:30–08:50 **IDEA detector concept**

**Speaker**  
Patrizia Azzi

08:50–09:05 **The IDEA tracking detectors**

**Speaker**  
Nicola De Filippis

09:05–09:20 **The IDEA detector calorimeter system (\*remote\*)**

**Speaker**  
Iacopo Vivarelli

09:20–09:40

**Full simulation of a hybrid dual-readout segmented crystal ECAL and fiber HCAL option of the IDEA calorimeter**

**Speaker**  
Wonyong Paul Chung

09:40-09:55 **Light-weight minimal mass support structures for tracking detectors**

**Speaker**  
Andreas Werner Jung

09:55-10:10

**Cosmic ray studies of Scintillation and Cherenkov light with different crystals**

**Speakers**  
Mekhala Mahesh Paranjpe, Yuxiang Guo

10:10-10:25 **Fast parameterizations for ray tracing in optical calorimetry**

**Speaker**  
Michael Bowler

10:35

08:30

## Tuesday morning parallel 1: Physics

**Session** | **Location:** Room 2-160 | **Conveners:** Michelangelo Mangano, Christoph Paus, Sergei Chekanov

08:30-08:35 **Welcome to the Physics Parallel Session**

**Speaker**  
Christoph Paus

08:35-08:50 **Using the H->invisible decay channel for calorimeter benchmarking**

**Speaker**  
Christian Weber

08:50-09:05 **Higgs decay into charm quarks and Tracking and Timing detectors**

**Speaker**  
George Iakovidis

09:05-09:20 **Improving the Higgs self-coupling measurement with Z(cc)H**

**Speaker**  
Abraham Tishelman-Charny

09:20-09:35 **Measurement of the dimuon cross section**

**Speaker**  
Casey Lawson

09:35-09:50 **Challenges of the measurement of the hadron cross section**

**Speakers**  
Marina Malta Nogueira, Tim Neumann

09:50-10:05 **Measurement of the dimuon forward backward asymmetry**

**Speakers**  
Brenda Chow, Sofia Lara

10:05-10:20

**Extracting electroweak parameters from the lineshape measurements**

**Speakers**  
Denis-Bogdan Siminiuc, Isabella Torres, Rujuta Sane

10:30