

# **Belle II International Masterclass 2024 (India)**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Introduction

*Wednesday, 1 May 2024 10:00 (20 minutes)*

To program, campus, and interaction with the local team. We explained the full layout of the event e.g. what they are expecting in each session

**Presenter:** KUMAR, Jitendra (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 2

Type: **not specified**

## Physics of Elementary Particles

*Wednesday, 1 May 2024 10:20 (30 minutes)*

It was a kind Q&A and intreraction-based session where Prof. Ashutosh (Head of Department) introduced various concepts of particle physics and demonstrated basics on blackboard.

**Presenter:** ALOK, Ashutosh Kumar (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 3

Type: **not specified**

## Experimental Methods in HEP

*Wednesday, 1 May 2024 11:00 (40 minutes)*

Including Belle II Virtual Reality and Introduction Data Analysis

**Presenter:** KUMAR, Jitendra (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 4

Type: **not specified**

## **Astrophysics Basics**

*Wednesday, 1 May 2024 11:40 (20 minutes)*

**Presenter:** Dr MOHARANA, Reetanjali (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 5

Type: **not specified**

## Break

*Wednesday, 1 May 2024 10:50 (10 minutes)*

Bio Break and snacks.

**Session Classification:** IIT Jodhpur Session

Contribution ID: 6

Type: **not specified**

## **Video tour of various international mega-science projects**

*Wednesday, 1 May 2024 12:00 (45 minutes)*

This session was conducted by our research scholar (Ms. Prisha, PhD student) and other scholars from our Particle Physics Group. Videos of various experiments conducted around the world, along with various detectors, were presented to the students.

**Presenters:** Ms KONWAR, Lekhashri (IIT Jodhpur); GAGNEJA, Prisha (BELLE (BELLE II Experiment)); Mr DUTTA, Sourav (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 7

Type: **not specified**

## **Introduction to Hands-on training**

*Wednesday, 1 May 2024 14:00 (20 minutes)*

**Presenter:** KUMAR, Jitendra (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session



Contribution ID: **8**

Type: **not specified**

## **Lunch Break**

*Wednesday, 1 May 2024 12:45 (1h 15m)*

**Session Classification:** IIT Jodhpur Session

Contribution ID: 9

Type: **not specified**

## Hands on Session

*Wednesday, 1 May 2024 14:20 (1h 40m)*

Exercise: Reconstruction of particles We divide 28 particles into 11 groups.

**Presenters:** KUMAR, Jitendra (IIT Jodhpur); KONWAR, Lekhashri (IIT Jodhpur); GAGNEJA, Prisha (BELLE (BELLE II Experiment)); DUTTA, Sourav (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: **10**

Type: **not specified**

## **Interaction with KEK, CR (Prof. Nishida)**

*Wednesday, 1 May 2024 16:00 (30 minutes)*

Through a common Zoom connection

<https://cern.zoom.us/j/62687960708?pwd=dWhPNEtkTy8vVlR5QzZVYVpwb2Zkdz09> and IIT Hyderabad was also connected

**Presenters:** KUMAR, Jitendra (IIT Jodhpur); SANDILYA, Saurabh (IIT Hyderabad); NISHIDA, Shohei (KEK)

**Session Classification:** IIT Jodhpur Session

Contribution ID: **11**

Type: **not specified**

## Quiz

*Wednesday, 1 May 2024 16:30 (30 minutes)*

Joint session with IIT Hyderabad team

**Presenter:** KUMAR, Jitendra (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 12

Type: **not specified**

## Group Photo and End of Program

*Wednesday, 1 May 2024 17:00 (5 minutes)*

**Presenter:** KUMAR, Jitendra (IIT Jodhpur)

**Session Classification:** IIT Jodhpur Session

Contribution ID: 14

Type: **not specified**

## Hands-on Session

*Friday, 10 May 2024 13:30 (2 hours)*

**Presenter:** BHARDWAJ, Vishal (IISER Mohali)

**Session Classification:** IISER Mohali

Contribution ID: 15

Type: **not specified**

## **Interaction session with Prof. Koga-san from Belle II CR**

*Friday, 10 May 2024 15:30 (30 minutes)*

**Presenter:** BHARDWAJ, Vishal (IISER Mohali)

**Session Classification:** IISER Mohali

Contribution ID: 16

Type: **not specified**

## Quiz

*Friday, 10 May 2024 16:00 (30 minutes)*

Joint session with IIT Bhubaneswar

**Presenters:** KUMAR, Jitendra (IIT Jodhpur); BAHINIPATI, Seema (BELLE (BELLE II Experiment)); BHARD-  
WAJ, Vishal (IISER Mohali)

**Session Classification:** IISER Mohali



Contribution ID: 17

Type: **not specified**

## Program Introduction

*Friday, 10 May 2024 10:00 (30 minutes)*

**Presenter:** BHARDWAJ, Vishal (IISER Mohali)

**Session Classification:** IISER Mohali

Contribution ID: **18**

Type: **not specified**

## Lectures and Demos

*Friday, 10 May 2024 10:30 (2 hours)*

**Presenter:** BHARDWAJ, Vishal (IISER Mohali)

**Session Classification:** IISER Mohali

Contribution ID: **19**

Type: **not specified**

## **Lunch Break**

*Friday, 10 May 2024 12:30 (1 hour)*

**Session Classification:** IISER Mohali

Contribution ID: 20

Type: **not specified**

## Program Introduction

*Friday, 10 May 2024 10:00 (30 minutes)*

**Presenter:** BAHINIPATI, Seema (BELLE (BELLE II Experiment))

**Session Classification:** IIT Bhubneswar

Contribution ID: 21

Type: **not specified**

## Lectures and Demos

*Friday, 10 May 2024 10:30 (2 hours)*

**Presenter:** BAHINIPATI, Seema (BELLE (BELLE II Experiment))

**Session Classification:** IIT Bhubneswar

Contribution ID: 22

Type: **not specified**

## **Lunch Break**

*Friday, 10 May 2024 12:30 (1 hour)*

**Session Classification:** IIT Bhubneswar

Contribution ID: 23

Type: **not specified**

## Hands-on Session

*Friday, 10 May 2024 13:30 (2 hours)*

**Presenter:** BAHINIPATI, Seema (BELLE (BELLE II Experiment))

**Session Classification:** IIT Bhubneswar

Contribution ID: 24

Type: **not specified**

## **Interaction session with Prof. Koga-san from Belle II CR**

*Friday, 10 May 2024 15:30 (30 minutes)*

**Presenter:** BAHINIPATI, Seema (BELLE (BELLE II Experiment))

**Session Classification:** IIT Bhubneswar



Contribution ID: 25

Type: **not specified**

## Quiz

*Friday, 10 May 2024 16:00 (30 minutes)*

Joint session with IISER Mohali

**Presenters:** KUMAR, Jitendra (IIT Jodhpur); BAHINIPATI, Seema (BELLE (BELLE II Experiment)); BHARD-  
WAJ, Vishal (IISER Mohali)

**Session Classification:** IIT Bhubneswar