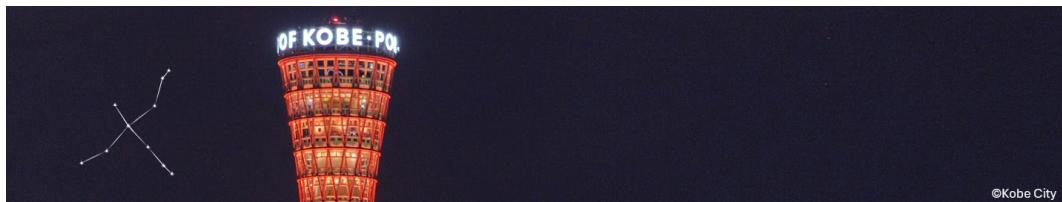


## **Session Program**

**23-25 Feb 2026**



# **9th edition of the international CYGNUS Workshop on Directional Recoil Detection**

## ***Gas detector R&D***

Kobe University, Integrated Research Center  
7 Chome-1-48 Minatojima Minamimachi, Chuo Ward, Kobe, Hyogo 650-0047

## Monday 23 February

14:00

### Gas detector R&D

**Session** |**Location:** Kobe University, Integrated Research Center, 7 Chome-1-48 Minatojima Minamimachi, Chuo Ward, Kobe, Hyogo 650-0047

14:00-14:25

#### Space-charge saturation effect and correction at high gain in CYGNO GEM-based detectors

**Speaker**

Giorgio Dho

14:25-14:50

#### Negative ion formation in pure CF<sub>4</sub> via dissociative electron attachment

**Speaker**

Dr Lindsey Bignell

14:50-15:15

#### Optical effects in Gaseous Electron Multipliers (GEMs)

**Speaker**

Dustin Edgeman

15:15

## Tuesday 24 February

10:40

### Gas detector R&D

Session |

**Location:** Kobe University, Integrated Research Center, 7 Chome-1-48 Minatojima Minamimachi, Chuo Ward, Kobe, Hyogo 650-0047

10:40-11:05

#### **First Optical Observation of Negative Ion Drift at Atmospheric Pressure**

**Speaker**

Prof. Elisabetta Baracchini

11:05-11:30

#### **Micromesh structures for Charge Amplification and Readout in Negative Ion Gases**

**Speaker**

Alasdair McLean

11:30-11:55

#### **Drift Properties of Noble Gases in Negative Ion Drift TPCs**

**Speaker**

Elizabeth Tilly

11:55

15:05

### Gas detector R&D

Session |

**Location:** Kobe University, Integrated Research Center, 7 Chome-1-48 Minatojima Minamimachi, Chuo Ward, Kobe, Hyogo 650-0047

15:05-15:30

#### **Status and Plan for the DAQ and Cooling System of a 40-L Gaseous TPC with X/Y Strip Readout**

**Speaker**

Aleczander Paul

15:30-15:55

#### **Fast reconstruction-based ROI triggering via anomaly detection in the CYGNO optical TPC**

**Speaker**

Giuseppe Maria Oppedisano

15:55-16:20

#### **Innovative DAQ system for the CYGNO-04 experiment**

**Speaker**

Stefano Piacentini

16:20

## Wednesday 25 February

09:15

### Gas detector R&D

**Session** |**Location:** Kobe University, Integrated Research Center, 7 Chome-1-48 Minatojima Minamimachi, Chuo Ward, Kobe, Hyogo 650-0047

09:15-09:40

#### Electron-Recoil Angular Resolution in Gaseous Time Projection Chambers

**Speaker**

Haiqi Long

09:40-10:05

#### Machine Learning methods for Directional Recoil Detection reconstruction at CYGNUS-Oz

**Speaker**

Edward Shields

10:05-10:30

#### Q-Pix: a pixelated charge readout for rare-event detection

**Speaker**

Prof. James Battat

10:30