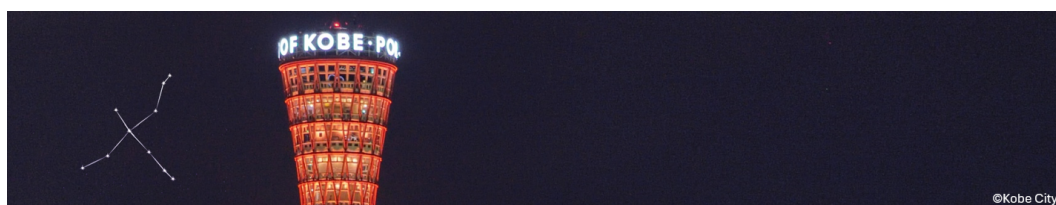


## **Session Program**

**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**

Aleczauder 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