

**1st Astro-COLIBRI
multi-messenger astrophysics
workshop**

**Rapport sur les
contributions**

ID de Contribution: 1

Type: **Non spécifié**

Detection and follow-up of transients by Swift

mardi 27 septembre 2022 09:30 (30 minutes)

Orateur: EVANS, Phil (University of Leicester)

Classification de Session: Transients

ID de Contribution: 2

Type: **Non spécifié**

The high-energy transient sky observed by SVOM and GRANDMA

mardi 27 septembre 2022 10:00 (30 minutes)

Orateur: TURPIN, Damien (CNES/CEA-Saclay)

Classification de Session: Transients

ID de Contribution: 3

Type: **Non spécifié**

Present and future large radio surveys of the extreme universe

lundi 26 septembre 2022 15:30 (30 minutes)

Transient radio emission is a fundamental tracer and physical probe of the most extreme and transient events in the universe. In this talk I will discuss a number of recent developments with existing radio telescopes, including i. the ThunderKAT image-plane transients programme on MeerKAT, ii. The first citizen-science project to search for commensal radio transients, iii. First radio detections of 'VHE GRBs' detected by ground-based Cherenkov arrays, iv. The possible association of a Tidal Disruption Event with an Ice Cube astrophysical neutrino. I will conclude by discussing the prospects for the next-generation of radio telescope arrays, and why we should consider a dedicated transient monitoring array for the southern hemisphere.

Orateur: Prof. FENDER, Rob (Oxford)

Classification de Session: Transients

ID de Contribution: 4

Type: **Non spécifié**

Neutrinos with IceCube

mardi 27 septembre 2022 15:30 (30 minutes)

Orateur: Prof. BLAUFUSS, Erik (University of Maryland)

Classification de Session: Transients

ID de Contribution: 5

Type: **Non spécifié**

Neutrinos with KM3NeT

mardi 27 septembre 2022 16:00 (30 minutes)

[coming soon]

Orateur: ILLUMINATI, Giulia (Bologna University / INFN)

Classification de Session: Transients

ID de Contribution: 6

Type: **Non spécifié**

Realtime alerts of the transient sky with Astro-COLIBRI

lundi 26 septembre 2022 17:00 (30 minutes)

Follow-up observations of transient events are crucial in multimessenger astronomy. We present Astro-COLIBRI as a tool that informs users about flaring events in real-time via push notifications on their mobile phones, thus contributing to enhanced coordination of follow-up observations. We show the software's architecture that comprises a REST API, both a static and a real-time database, a cloud-based alert system, as well as a website and apps for iOS and Android as clients for users. The latter provide a graphical representation with a summary of the relevant data to allow for the fast identification of interesting phenomena along with an assessment of observing conditions at a large selection of observatories around the world in real-time.

Orateur: REICHHERZER, Patrick (Ruhr-University Bochum)

Classification de Session: Introduction

ID de Contribution: 7

Type: **Non spécifié**

Alert tools for the public

mercredi 28 septembre 2022 09:00 (30 minutes)

Amateur astronomy contributions to multimessenger & time-domain astronomy, alert tools for the public.

Orateur: EGGENSTEIN, Heinz-Bernd (MPI Hannover)

Classification de Session: Transients

ID de Contribution: **8**

Type: **Non spécifié**

IACT transients follow-up systems

lundi 26 septembre 2022 14:30 (30 minutes)

Orateur: ASHKAR, Halim (CEA-Irfu)

Classification de Session: Transients

ID de Contribution: 9

Type: **Non spécifié**

The Astrophysical Multimessenger Observatory Network (AMON)

mercredi 28 septembre 2022 10:00 (30 minutes)

Orateur: MOSTAFA, Miguel (Penn State Univ.)

Classification de Session: Transients

ID de Contribution: **10**

Type: **Non spécifié**

Transient processing and analysis using AMPEL

mercredi 28 septembre 2022 10:30 (30 minutes)

Orateur: NORDIN, Jakob (Humboldt University of Berlin)

Classification de Session: Transients

ID de Contribution: **11**

Type: **Non spécifié**

VOEvent system for transient event alerts

mercredi 28 septembre 2022 09:30 (30 minutes)

Orateur: NEBOT, Ada (Observatoire Astronomique de Strasbourg)

Classification de Session: Transients

ID de Contribution: 12

Type: **Non spécifié**

Time-resolved spectroscopy with the Global Jet Watch

mardi 27 septembre 2022 11:00 (30 minutes)

Orateur: BLUNDELL, Katherine (Oxford)

Classification de Session: Transients

ID de Contribution: 13

Type: **Non spécifié**

Gravitational wave observations with Virgo

mardi 27 septembre 2022 12:00 (30 minutes)

Orateur: SEGLAR-ARROYO, Monica (L.A.P.P., University Savoie Mont-Blanc)

Classification de Session: Transients

ID de Contribution: 14

Type: **Non spécifié**

Fast Radio Bursts (FRBs)

lundi 26 septembre 2022 16:00 (30 minutes)

Orateur: Prof. STAPPERS, Benjamin (University of Manchester)

Classification de Session: Transients

ID de Contribution: 15

Type: **Non spécifié**

Transient observations with MAGIC and LST

lundi 26 septembre 2022 15:00 (30 minutes)

Orateur: BERTI, Alessio (MPI München)

Classification de Session: Transients

ID de Contribution: **16**

Type: **Non spécifié**

Counterparts of neutrinos

mardi 27 septembre 2022 16:30 (30 minutes)

Orateur: FRANCKOWIAK, Anna

Classification de Session: Transients

ID de Contribution: 17

Type: **Non spécifié**

Modelling transient source physics

lundi 26 septembre 2022 12:30 (30 minutes)

Orateur: Prof. BECKER TJUS, Julia (Ruhr-University Bochum)

Classification de Session: Introduction

ID de Contribution: **18**

Type: **Non spécifié**

EHT in the era of Multi-messenger transients

lundi 26 septembre 2022 13:30 (30 minutes)

Orateur: Prof. MARKOFF, Sera (API/GRAPPA, University of Amsterdam)

Classification de Session: Introduction

ID de Contribution: **19**

Type: **Non spécifié**

Multi-messenger emission from transient sources

lundi 26 septembre 2022 13:00 (30 minutes)

Orateur: OIKONOMOU, Foteini (NTNU)

Classification de Session: Introduction

ID de Contribution: 21

Type: **Non spécifié**

Live demo of Astro-COLIBRI

lundi 26 septembre 2022 17:30 (30 minutes)

Orateur: SCHUSSLER, Fabian (CEA/Irfu)

Classification de Session: Introduction

ID de Contribution: **22**

Type: **Non spécifié**

Supernovae

mardi 27 septembre 2022 11:30 (30 minutes)

Orateur: Prof. SOLLERMAN, Jesper (Stockholm University)

Classification de Session: Transients

ID de Contribution: **23**

Type: **Non spécifié**

Introduction

Orateur: REICHHERZER, Patrick (Ruhr University Bochum)

ID de Contribution: 24

Type: **Non spécifié**

Workshop Introduction

lundi 26 septembre 2022 12:20 (10 minutes)

Orateur: REICHHERZER, Patrick (Ruhr University Bochum)

Classification de Session: Welcome reception

ID de Contribution: 25

Type: **Non spécifié**

Ideas to include optical data for interesting sources

vendredi 30 septembre 2022 09:30 (20 minutes)

Orateurs: NORDIN, Jakob (Humboldt University of Berlin); BOROWSKA, Jowita; WEIMANN, Sven

Classification de Session: Young scientists

ID de Contribution: 26

Type: **Non spécifié**

Swift-XRT GRB lightcurves in Astro-COLIBRI

vendredi 30 septembre 2022 09:50 (20 minutes)

Orateurs: BERTI, Alessio; DE BONY DE LAVERGNE, Mathieu; KONNO, Ruslan

Classification de Session: Young scientists

ID de Contribution: 27

Type: **Non spécifié**

Better alert visualizations in astro-colibri.com

vendredi 30 septembre 2022 10:10 (20 minutes)

Orateurs: Prof. BLAUFUSS, Erik (University of Maryland); VIALE, Ilaria; LYPOVA, Iryna; VÖLP, Jurek; LINCETTO, Massimiliano

Classification de Session: Young scientists

ID de Contribution: 28

Type: **Non spécifié**

GW plug-in to AstroColibri: a prototype?

vendredi 30 septembre 2022 10:30 (20 minutes)

Orateurs: TURPIN, Damien; ASHKAR, Halim; SEGLAR-ARROYO, Monica

Classification de Session: Young scientists

ID de Contribution: **29**

Type: **Non spécifié**

Assessment of latest ATels

vendredi 30 septembre 2022 10:50 (20 minutes)

Orateurs: ARAVINTHAN, Athithya; ALKAN, Atilla Kaan; SOMMANI, Giacomo

Classification de Session: Young scientists

ID de Contribution: **30**

Type: **Non spécifié**

Instagram Astro-COLIBRI

vendredi 30 septembre 2022 11:10 (20 minutes)

Orateurs: ASHKAR, Halim; SEGLAR ARROYO, Monica

Classification de Session: Young scientists