

**2023 High Energy  
Astrophysics International  
Data Camp at UNIPD**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and Introduction to the data-camp

*Monday, 25 September 2023 09:00 (30 minutes)*

**Presenters:** NIGRO, Cosimo (Institut de Física d'Altes Energies (IFAE)); PRANDINI, Elisa (Dipartimento di Fisica e Astronomia Università di Padova); D'AMICO, Giacomo (University of Bergen); DORO, Michele (Dipartimento di Fisica e Astronomia Università di Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 2

Type: **not specified**

## Introduction to Gamma-Ray Astrophysics

*Monday, 25 September 2023 09:30 (1h 30m)*

**Presenter:** PRANDINI, Elisa (Dipartimento di Fisica e Astronomia Università di Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 3

Type: **not specified**

## Setting up groups and computers

*Monday, 25 September 2023 11:30 (30 minutes)*

**Presenter:** MICELI, Davide (University & INFN Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 4

Type: **not specified**

## **Hands-on: Play with catalogs**

*Monday, 25 September 2023 12:00 (1 hour)*

**Presenter:** PRANDINI, Elisa (Dipartimento di Fisica e Astronomia Università di Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 5

Type: **not specified**

## **Introduction to Gamma-Ray Instruments**

*Monday, 25 September 2023 14:30 (1h 30m)*

**Presenter:** DORO, Michele (Dipartimento di Fisica e Astronomia Università di Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 6

Type: **not specified**

## Hardware show

*Monday, 25 September 2023 16:30 (45 minutes)*

**Presenters:** ARCARO, Cornelia; PIHET, Marine (Università degli Studi di Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 7

Type: **not specified**

## **Live with the MAGIC telescope**

**Presenter:** DORO, Michele (Dipartimento di Fisica e Astronomia Università di Padova)

**Session Classification:** Day 1: Introduction to gamma-ray astronomy



Contribution ID: 8

Type: **not specified**

## **Presentation on Scientific Articles**

*Monday, 25 September 2023 17:15 (45 minutes)*

**Session Classification:** Day 1: Introduction to gamma-ray astronomy

Contribution ID: 9

Type: **not specified**

## **Introduction on Statistics for Astronomy**

*Tuesday, 26 September 2023 09:30 (1h 30m)*

**Presenter:** D'AMICO, Giacomo (University of Bergen)

**Session Classification:** DAY 2 – Introduction to statistics and data analysis

Contribution ID: **10**

Type: **not specified**

# **Introduction on Data Reading and Handling for Astronomy #1**

*Tuesday, 26 September 2023 11:30 (1h 30m)*

**Presenter:** D'AMICO, Giacomo (University of Bergen)

**Session Classification:** DAY 2 – Introduction to statistics and data analysis

Contribution ID: 11

Type: **not specified**

## **Introduction on Data Reading and Handling for Astronomy #2**

*Tuesday, 26 September 2023 14:30 (1h 30m)*

**Presenter:** D'AMICO, Giacomo (University of Bergen)

**Session Classification:** DAY 2 – Introduction to statistics and data analysis

Contribution ID: 12

Type: **not specified**

## **(free time) Article Reading and Questions**

*Tuesday, 26 September 2023 17:10 (1h 10m)*

**Presenter:** MICELI, Davide (University & INFN Padova)

**Session Classification:** DAY 2 – Introduction to statistics and data analysis

Contribution ID: 13

Type: **not specified**

## Presentations from PhDs

*Wednesday, 27 September 2023 09:00 (1 hour)*

**Presenters:** VIALE, Ilaria (Università degli Studi di Padova); BATKOVIC, Ivana (University of Padova)

**Session Classification:** DAY 3 – Analysis of real data from current experiments

Contribution ID: 14

Type: **not specified**

# **Introduction High-Energy Astrophysics Software #1**

*Wednesday, 27 September 2023 10:00 (1 hour)*

**Session Classification:** DAY 3 – Analysis of real data from current experiments

Contribution ID: 15

Type: **not specified**

## **Hands-on: Spectral Energy Distribution**

*Wednesday, 27 September 2023 11:30 (1h 30m)*

**Presenter:** NIGRO, Cosimo (Institut de Física d'Altes Energies (IFAE))

**Session Classification:** DAY 3 – Analysis of real data from current experiments



Contribution ID: 16

Type: **not specified**

## **Hands-on: Light Curves**

*Wednesday, 27 September 2023 14:30 (1 hour)*

**Presenter:** NIGRO, Cosimo (Institut de Física d'Altes Energies (IFAE))

**Session Classification:** DAY 3 – Analysis of real data from current experiments

Contribution ID: 17

Type: **not specified**

## **(group work) Article Reading and Questions**

*Wednesday, 27 September 2023 16:00 (1 hour)*

**Presenter:** MICELI, Davide (University & INFN Padova)

**Session Classification:** DAY 3 – Analysis of real data from current experiments

Contribution ID: 18

Type: **not specified**

## **Highlight: pulsar, pulsar wind nebulae and supernova remnants**

*Wednesday, 27 September 2023 17:15 (45 minutes)*

**Presenter:** CERIBELLA, Giovanni (ICRR Tokyo)

**Session Classification:** DAY 3 – Analysis of real data from current experiments

Contribution ID: 19

Type: **not specified**

## **Introduction on modeling of Active Galactic Nuclei**

*Thursday, 28 September 2023 10:00 (1h 30m)*

**Presenter:** NIGRO, Cosimo (Institut de Física d'Altes Energies (IFAE))

**Session Classification:** DAY 4 –Results interpretation

Contribution ID: 20

Type: **not specified**

## Introduction of package agnpy

*Thursday, 28 September 2023 12:00 (1 hour)*

**Presenter:** NIGRO, Cosimo (Institut de Física d'Altes Energies (IFAE))

**Session Classification:** DAY 4 –Results interpretation

Contribution ID: 21

Type: **not specified**

## Hands-on: agnpy

*Thursday, 28 September 2023 14:30 (1h 30m)*

**Session Classification:** DAY 4 –Results interpretation

Contribution ID: 22

Type: **not specified**

## Article preparation and discussion

*Thursday, 28 September 2023 16:30 (1h 30m)*

**Session Classification:** DAY 4 –Results interpretation

Contribution ID: 23

Type: **not specified**

## **Articles presentations by Students groups**

*Friday, 29 September 2023 09:00 (1h 40m)*

**Session Classification:** DAY 5 –Final discussion



Contribution ID: 24

Type: **not specified**

## **Presentation by student**

*Friday, 29 September 2023 11:10 (40 minutes)*

**Session Classification:** DAY 5 –Final discussion

Contribution ID: 25

Type: **not specified**

## Analysis Quiz

**Session Classification:** DAY 5 –Final discussion

Contribution ID: 26

Type: **not specified**

## **Final Questionnaire. Picture and Goodbye!**

*Friday, 29 September 2023 12:30 (30 minutes)*

**Session Classification:** DAY 5 –Final discussion

Contribution ID: 27

Type: **not specified**

## **Live with the The MAGIC telescopes**

*Tuesday, 26 September 2023 16:30 (40 minutes)*

**Presenter:** DORO, Michele (Dipartimento di Fisica e Astronomia Università di Padova)

**Session Classification:** DAY 2 – Introduction to statistics and data analysis

Contribution ID: 28

Type: **not specified**

## Quiz Time and Discussion

*Friday, 29 September 2023 11:50 (40 minutes)*

**Session Classification:** DAY 5 –Final discussion

Contribution ID: 29

Type: **not specified**

## **AstroUAB experience**

*Wednesday, 27 September 2023 17:00 (15 minutes)*

**Session Classification:** DAY 3 – Analysis of real data from current experiments