

# **Dynamical complexity in astrophysical contexts**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome, Introduction, logistic

*Monday 6 February 2023 09:00 (20 minutes)*

**Presenter:** Dr FIORE, Fabrizio (Istituto Nazionale di Astrofisica (INAF))

Contribution ID: 2

Type: **not specified**

## **Solar flares, Coronal Mass Ejections**

*Monday 6 February 2023 09:30 (1 hour)*

**Presenter:** Dr IVANOVSKI, Stavro (INAF-OATs)

Contribution ID: 4

Type: **not specified**

## **Self-organized criticality with application to solar flares**

*Monday 6 February 2023 10:50 (1 hour)*

**Presenter:** Dr HERRMANN, Hans (Universidade Federal do Ceara)

Contribution ID: 5

Type: **not specified**

## **Chaotic Cold Accretion onto Black Holes**

*Tuesday 7 February 2023 09:30 (1 hour)*

**Presenter:** Dr GASPARI, Max (University of Princeton)

Contribution ID: 6

Type: **not specified**

## **Crackling noise- Statistical physics of avalanche phenomena**

*Tuesday 7 February 2023 10:30 (1 hour)*

**Presenter:** Prof. ZAPPERI, Stefano (Universita' di Milano)

Contribution ID: 7

Type: **not specified**

## **Multiphase gas in central cluster and group galaxies**

*Tuesday 7 February 2023 11:50 (1 hour)*

**Presenter:** Dr OLIVERES, Valeria (University of Kentucky)

Contribution ID: 8

Type: **not specified**

## **N-body chaos, discreteness effects and collective instabilities in self-gravitating systems**

*Tuesday 7 February 2023 14:20 (1 hour)*

**Presenter:** Dr DI CINTIO, Pierfrancesco (CNR-ISC)

Contribution ID: 9

Type: **not specified**

## **AGN feedback in galaxy clusters and groups: state-of-the-art and recent advances**

*Wednesday 8 February 2023 09:30 (1 hour)*

**Presenter:** Dr PASINI, Thomas (Hamburg University)

Contribution ID: **10**

Type: **not specified**

## **Formation and evolution of galaxy cluster Bright Central Galaxies**

*Wednesday 8 February 2023 10:30 (1 hour)*

**Presenter:** Dr TOZZI, Paolo (INAF-OAA)

Contribution ID: 11

Type: **not specified**

## **Classical systems with long-range interactions in equilibrium and out of equilibrium**

*Wednesday 8 February 2023 11:50 (1 hour)*

**Presenter:** CASETTI, Lapo (Universita' di Firenze)

Contribution ID: 12

Type: **not specified**

## Quantum Long-range systems

*Wednesday 8 February 2023 14:20 (1 hour)*

**Presenter:** Dr DEFENU, Nicolo' (ETH)

Contribution ID: 13

Type: **not specified**

## **Dynamical complexity in micro-scale disk-wind systems**

*Thursday 9 February 2023 09:30 (1 hour)*

**Presenter:** Dr FIORE, Fabrizio (Istituto Nazionale di Astrofisica (INAF))

Contribution ID: 14

Type: **not specified**

## **Star formation and black hole accretion histories in galaxy evolution models**

*Thursday 9 February 2023 10:30 (1 hour)*

**Presenter:** Dr FONTANOT, Fabio (INAF-OATs)

Contribution ID: 15

Type: **not specified**

## **Spatio-Temporal correlations in earthquakes and solar flares: self-organized criticality beyond the sand pile model**

*Thursday 9 February 2023 11:50 (1 hour)*

**Presenter:** Prof. LIPPIELLO, Eugenio (Universita' della Campania)

Contribution ID: 16

Type: **not specified**

# **Theory and observations of photoionised gas around supermassive black holes**

*Friday 10 February 2023 09:30 (1 hour)*

**Presenter:** Dr LUMINARI, Alfredo (INAF-IAPS)

Contribution ID: 17

Type: **not specified**

## **Gamma Ray Bursts**

*Friday 10 February 2023 10:30 (40 minutes)*

**Presenter:** Dr FIORE, Fabrizio (Istituto Nazionale di Astrofisica (INAF))

Contribution ID: **18**

Type: **not specified**

## **Large deviations: their use in equilibrium statistical mechanics and in a broader perspective.**

*Monday 6 February 2023 14:20 (1 hour)*

**Presenter:** Prof. RUFFO, Stefano (SISSA)

Contribution ID: 20

Type: **not specified**

## **Systems out-of-equilibrium: fluctuation relations.**

*Thursday 9 February 2023 14:20 (1 hour)*

**Presenter:** Prof. RUFFO, Stefano (SISSA)