

# **Simulating the evolution and emission of relativistic outflows**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Generalised Fermi acceleration

*Thursday, November 28, 2019 9:30 AM (30 minutes)*

**Presenter:** LEMOINE, Martin (Institut d'Astrophysique de Paris, CNRS - Sorbonne U)

**Session Classification:** Particle acceleration in relativistic jets

Contribution ID: 2

Type: **not specified**

## **PIC / MHD simulations of relativistic shocks**

*Thursday, November 28, 2019 10:00 AM (30 minutes)*

**Presenter:** CASSE, Fabien (APC - Université de Paris)

**Session Classification:** Particle acceleration in relativistic jets

Contribution ID: 3

Type: **not specified**

## **PIC simulations of magnetic reconnection**

*Thursday, November 28, 2019 10:30 AM (30 minutes)*

**Presenter:** CERUTTI, Benoit (IPAG)

**Session Classification:** Particle acceleration in relativistic jets

Contribution ID: 5

Type: **not specified**

## **AGN observations with LOFAR**

*Thursday, November 28, 2019 11:50 AM (30 minutes)*

**Presenter:** TASSE, Cyril (GEPI)

**Session Classification:** AGN - Observations

Contribution ID: 6

Type: **not specified**

## Observations of jets with geodetic VLBI and link to Gaia

*Thursday, November 28, 2019 12:20 PM (30 minutes)*

Geodetic VLBI is a powerful technique that has been used for 40 years to monitor the Earth's rotation and realize the terrestrial and celestial reference frames with an unprecedented precision ( $< 0.1$  mas). Recently, it has permitted the construction of the third realization of the International Celestial Reference Frame (ICRF3) which is currently the most precise celestial reference frame. Recently also, Gaia provided an independent astrometric solution whose precision is, for the first time, comparable to VLBI, opening the way to comparisons of positions at various wavelengths. In this talk, I will show the signature of relativistic jets - and more generally of the source structure - in geodetic VLBI observations, and the systematics and offsets between VLBI and Gaia positions.

**Presenter:** LAMBERT, Sébastien (SYRTE, Observatoire de Paris)

**Session Classification:** AGN - Observations

Contribution ID: 8

Type: **not specified**

## **Jet modelling in AGN and preparation of simulations.**

*Thursday, November 28, 2019 2:00 PM (35 minutes)*

**Presenter:** SAUTY, Christophe

**Session Classification:** AGN - Jet models

Contribution ID: 9

Type: **not specified**

## **GRMHD modelling and radiative transfer**

*Thursday, November 28, 2019 2:35 PM (20 minutes)*

**Presenter:** FICHET DE CLAIRFONTAINE, Gaëtan (LUTH Observatoire de Paris)

**Session Classification:** AGN - Jet models



Contribution ID: 10

Type: **not specified**

## **A jet model for describing the shadows of Sgr A\* and M87\***

*Thursday, November 28, 2019 2:55 PM (30 minutes)*

**Presenter:** VINCENT, Frédéric

**Session Classification:** AGN - Jet models

Contribution ID: 11

Type: **not specified**

## **Emission modelling with stratified jets**

*Thursday, November 28, 2019 3:25 PM (30 minutes)*

**Presenter:** HENRI, Gilles (IPAG/Observatoire de Grenoble/UGA)

**Session Classification:** AGN - Emission models

Contribution ID: 12

Type: **not specified**

## **Time-dependent modeling of the blazar flares**

*Thursday, November 28, 2019 4:25 PM (20 minutes)*

**Presenter:** DMYTRIIEV, Anton (LUTH Observatoire de Paris)

**Session Classification:** AGN - Emission models

Contribution ID: 13

Type: **not specified**

## **Linking high-energy emission with radio-VLBI jets**

*Thursday, November 28, 2019 4:45 PM (30 minutes)*

**Presenter:** HERVET, Olivier (UCSC)

**Session Classification:** AGN - Emission models

Contribution ID: 14

Type: **not specified**

## **Hadronic emission modelling and multi-messengers**

*Friday, November 29, 2019 9:30 AM (30 minutes)*

**Presenter:** Dr CERRUTI, Matteo (Institut de Ciències del Cosmos - Universitat de Barcelona (IC-CUB))

**Session Classification:** AGN - Emission models

Contribution ID: 15

Type: **not specified**

## **GRB Observations : MWL**

*Friday, November 29, 2019 10:00 AM (30 minutes)*

**Presenter:** VERGANI, Susanna (GEPI)

**Session Classification:** GRB - Observations

Contribution ID: 16

Type: **not specified**

## **Internal shock scenario for GRBs**

*Friday, November 29, 2019 10:30 AM (30 minutes)*

**Presenter:** DAIGNE, Frédéric (Institut d'Astrophysique de Paris - Sorbonne Université)

**Session Classification:** GRB - Emission models

Contribution ID: 17

Type: **not specified**

## **Emission modelling at very high energies**

*Friday, November 29, 2019 11:30 AM (30 minutes)*

**Presenter:** BOSNJAK, Zeljka (FER - University of Zagreb, Croatia)

**Session Classification:** GRB - Emission models



Contribution ID: **19**

Type: **not specified**

## **XRB Observations: high energies**

*Friday, November 29, 2019 12:20 PM (30 minutes)*

**Presenter:** DUBUS, Guillaume (IPAG)

**Session Classification:** X-ray/gamma-ray binaries - Observations

Contribution ID: 20

Type: **not specified**

## **The internal shock model applied to X-ray binaries.**

*Friday, November 29, 2019 2:00 PM (30 minutes)*

**Presenter:** MALZAC, Julien (IRAP (CNRS/Université de Toulouse/CNES))

**Session Classification:** X-ray/gamma-ray binaries - jet and emission models

Contribution ID: 21

Type: **not specified**

# **An Accretion-Ejection Paradigm for Compact Objects**

*Friday, November 29, 2019 2:30 PM (30 minutes)*

**Presenter:** PETRUCCI, Pierre-Olivier (IPAG)

**Session Classification:** X-ray/gamma-ray binaries - jet and emission models

Contribution ID: 22

Type: **not specified**

## **Relativistic ejections from binary neutron star mergers.**

*Friday, November 29, 2019 12:00 PM (20 minutes)*

**Presenter:** DUQUE, Raphaël (Institut d'Astrophysique de Paris)

**Session Classification:** GRB - Emission models

Contribution ID: 25

Type: **not specified**

## **Electromagnetic cascades in Kerr black hole magnetospheres**

*Thursday, November 28, 2019 11:30 AM (20 minutes)*

**Presenter:** CRINQUAND, Benjamin (IPAG)

**Session Classification:** Particle acceleration in relativistic jets

Contribution ID: 27

Type: **not specified**

## **Dynamical effects of radiative losses in high-mass microquasars**

*Friday, November 29, 2019 3:00 PM (20 minutes)*

**Presenter:** CHARLET, Arthur (CRAL, LUPM)

**Session Classification:** X-ray/gamma-ray binaries - jet and emission models

Contribution ID: **30**

Type: **not specified**

## **Introduction**

*Thursday, November 28, 2019 9:25 AM (5 minutes)*

**Presenter:** ZECH, Andreas

**Session Classification:** Welcome and Coffee

Contribution ID: **31**

Type: **not specified**

## Welcome and Coffee

*Thursday, November 28, 2019 9:00 AM (25 minutes)*

**Session Classification:** Welcome and Coffee