

# **Test XRAY**

Thursday, 10 January 2019 - Thursday, 31 January 2019

## **Book of Abstracts**



# Contents

Pippo loved Annabella who liked Orazio! . . . . .	1
X-ray observations of AGN . . . . .	1
Coronal properties of high-z QSOs . . . . .	1
Back to the future: highlights of the observing campaign of the large scale jets of XTE J1550-564 . . . . .	2
Probing the acceleration processes in the hot spot regions . . . . .	2
The growth of cosmic structures in the inflationary era . . . . .	2
ultima poi la smetto . . . . .	3



4

## Pippo loved Annabella who liked Orazio!

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Once upon a time, in a small town called Topolinia, nobody had parents. Uncles and aunts were everywhere. Parents were missing! After a long investigation, mr. Basettoni, detective of the Topolinia Police Department (TPD) found that this strange phenomenon was due to an incredible coincidence: nobody was liked by the person who loved. This, coupled with the intimate hypocrisy of every “perfect world” filled the town of nephews without parents. No doubt that someone had to have sex somewhere, sometime! But nobody was able to understand who did what with who!

**Topic:**

8

## X-ray observations of AGN

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I will present new results!

**Topic:**

Active Galactic Nuclei: accretion physics and evolution across cosmic time

3

## Coronal properties of high-z QSOs

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We present coronal properties of four high redshift, high luminosity QSOs (two lensed), measured with *Nustar* and *XMM-Newton*. The average coronal temperature for these sources is  $\sim 50\text{keV}$  and the optical depth is  $\tau = 1 - 1.5$ . The low temperature found in all these luminous QSOs is in agreement with the prediction of coronal emission models predicting a runaway pair production limit above a certain L-T curve.

**Topic:**

Active Galactic Nuclei: accretion physics and evolution across cosmic time

13

## Back to the future: highlights of the observing campaign of the large scale jets of XTE J1550-564

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The large-scale decelerating jets of the XTE J1550-564 represent an unique laboratory to investigate the physics of microquasars' jets and their interaction with the interstellar medium. In this talk, I will present the results of the multi-frequency campaign of observations which probed the inner structure of the western jet in 2001-2003. The complex, evolving morphology of the jet in X-rays, the detection of polarized radio emission and the chromatic decay of the broad-band emission give indications on how the particles are accelerated and energy is dissipated at large distances from the black hole. I will discuss our findings in relation to the radiative and dynamical models proposed for this system, and examine the similarities with other microquasars' jets, such as H 1743-322. Finally, I will briefly illustrate how the incoming facilities will significantly improve our powers of observations of this class of transient objects.

**Topic:**

Compact and diffuse sources in galaxies and in the Galactic Center

14

## Probing the acceleration processes in the hot spot regions

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Multi-wavelength studies are necessary to unveil the physical conditions and the acceleration processes taking place at the jet termination of powerful galaxies. In view of the short radiative times of the particles producing the observed X-ray synchrotron emission, X-ray observations of the hot spots are a powerful tool to probe small (sub-pc) physical scales and short-lived (months) processes, inaccessible at other wavelengths. We request 180 ksec Chandra time to study the southern hotspot of the radio galaxy 3C 445.

**Topic:**

Active Galactic Nuclei: accretion physics and evolution across cosmic time

17

## The growth of cosmic structures in the inflationary era

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Bla bla bla

**Topic:**

Active Galactic Nuclei: accretion physics and evolution across cosmic time

16

## ultima poi la smetto

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**Topic:**

Multi-messenger astronomy