

Session Program

8-13 Sept 2019



X-RAY ASTRONOMY 2019

Current Challenges and New Frontiers in the Next Decade

8-13 September 2019
CNR/INAF Research Area, Bologna, Italy

X-RAY ASTRONOMY 2019

POSTER SESSION

Friday 13 September

14:00

POSTER SESSION: MULTI-MESSENGER AND TRANSIENT ASTRONOMY

Session | **Location:** Area della Ricerca CNR-INAF via Gobetti 101 40129 Bologna ITALY

14:00-14:02 **What makes clumpy obscuration and X-ray occultation events?**

Speaker

Dr Johannes Buchner

14:02-14:04 **The place of TDE within the demography of Black Hole accretion**

Speaker

Mr Sudip Chakraborty

14:04-14:06 **The Exceptional X-ray Evolution of SN 1996cr in High Resolution**

Speaker

Vikram Dwarkadas

14:06-14:08 **The SXPS catalogues: improved transient detection with Swift-XRT**

Speaker

Dr Phil Evans

14:08-14:10 **The BH XRB researches highlighted with Insight-HXMT**

Speaker

Mr Yue Huang

14:10-14:12

Exponential Temporal Decay of Extended Emissions in Short Gamma-Ray Bursts with Possible Luminosity -- E-folding Time Correlation

Speaker

Yasuaki Kagawa

14:12-14:14

Classification of X-ray activities of GRS 1915+105 based on 10-year monitoring with MAXI and Swift.

Speaker

Nobuyuki Kawai

14:14-14:16 **A tidal disruption event in an AGN**

Speaker

Dr Zhu Liu

14:16-14:18 **Classifying eROSITA's Variable Source Population**

Speaker

Mr Adam Malyali

14:18-14:20

NICER+NuSTAR phase-resolved spectroscopy of quasi-periodic oscillations in the X-ray binary GRS 1915+105

Speaker

Edward Nathan

14:20–14:22

X-ray/Optical Rapid Timing Correlations and the Resolving of Jet Base Activity in MAXI J1820+070**Speaker**

Mr John Paice

14:22–14:24

X-RAY TO RADIO STUDIES OF TRANSITIONAL BINARY SYSTEMS**Speaker**

Maura Pilia

14:24–14:26

RWI in disks around high spin black hole: how does it impact the observables**Speaker**

Peggy Varniere

14:26–14:28

Detection of an IR burst in 4U 1728-34**Speaker**

Federico Vincentelli

14:28–14:30

Time Domain Studies of Neutron Star and Black Hole Populations: The Post Chandra and XMM-Newton Era**Speaker**

Neven Vulic

14:30

14:30

POSTER SESSION: COMPACT AND DIFFUSE SOURCES IN GALAXIES & IN THE GALACTIC CENTER**Session** | **Location:** Area della Ricerca CNR-INAF via Gobetti 101 40129 Bologna ITALY

14:40–14:41

Search for multiwavelength emission from the binary millisecond pulsar J1836-2354A**Speaker**

Roberta Amato

14:41–14:42

Correlation between X-ray emission and stellar populations: the definitive study of nearby galaxies observed with XMM-Newton**Speaker**

Konstantina Anastasopoulou

14:42–14:44

The long outburst of the black hole transient GRS 1716-249**Speaker**

Tiziana Bassi

14:44–14:46

New outburst with periodic modulation for a luminous supersoft source in NGC 300.**Speaker**

Dr Stefania Carpano

14:46–14:48

Low Mass X-ray Binaries: Not conservative mass transfer and orbital evolution**Speaker**

Prof. Tiziana Di Salvo

14:48–14:50

Smoothed Particle Inference Analysis of Supernova Remnant DEM L71**Speaker**

Vikram Dwarkadas

14:50–14:52

Comparison of spectral models for disc truncation in the hard state of GX 339-4**Speaker**

Ms Marta Dziełak

14:52–14:54

Hot gas heating via magnetic arms in spiral galaxies?**Speaker**

Dr Matthias Ehle

14:56–14:58

A broad-band analysis of GRS 1758-258 using long-term spectra collected by the INTEGRAL satellite**Speaker**

Alexandros Filothodoros

14:58–15:00

How can a magnet hide its signature line? The case of 4U 1901+03 and 2S 1417-624.**Speaker**

Felix Fuerst

15:00–15:02

A Neutron Star Ultra-Compact X-ray Binary Candidate**Speaker**

Dr Frank Haberl

15:02–15:04

Identifying Counterparts for the Pulsar-like Unidentified Hard Gamma-ray Objects**Speaker**

David C. Y. Hui

15:04–15:06

X-ray emissions from magnetic polar regions of neutron stars**Speaker**

Dr Hajime Inoue

15:06–15:07

X-ray Dust Scattering towards the Galactic Center**Speaker**

Chichuan Jin

15:07–15:08

Neutron Star Population Expected in Galactic Center Region**Speaker**

Prof. Vladimir Karas

15:08-15:09

Deep X-ray Spectral Imaging of the Bow-shock Nebula associated with PSR B1929+10**Speaker**

Sang In Kim

15:10-15:11

Probing the building blocks of galaxies: sub-galactic scaling relations between X-ray luminosity, SFR and stellar mass**Speaker**

Konstantinos Kouroumpatzakis

15:11-15:12

Lessons learned from ULX populations and their environment**Speaker**

Konstantinos Kovelakas

15:12-15:13

The properties of the soft excess in the transient X-ray binary pulsars of the Small Magellanic Cloud**Speaker**

Nicola La Palombara

15:13-15:14

The X-ray emission from hot subdwarf stars**Speaker**

Nicola La Palombara

15:15-15:16

XMM-Newton Survey of Magellanic Bridge**Speaker**

Mr Ryan Le Roux

15:16-15:17

Searching for X-ray emission from an electron/positron pair halo with current generation and next generation X-ray telescopes**Speaker**

Dr Wasutep Luangtip

15:17-15:18

X-Ray Census of Millisecond Pulsars in the Galactic Field**Speaker**

Mr Lee Jongsu

15:18-15:19

10 years of the Fermi/GBM Pulsar Project**Speaker**

Christian Malacaria

15:19-15:21

Accretion in Ultracompact X-ray Binaries: A Unified Picture of 4U 1626-67**Speaker**

Paul Hemphill

15:21-15:22

A joint NICER and XMM-Newton view of the "Magnificent" thermally emitting X-ray Isolated Neutron Star RX J1605.3+3249

Speaker

Christian Malacaria

15:23–15:24

Extended X-ray Emission Around Wolf-Rayet Stars: Circumstellar Structure and Evolution**Speaker**

Anthony Marston

15:25–15:26

The Weirdest Objects in the Chandra Source Catalog 2.0. A Machine Learning Approach**Speaker**

Dr Rafael Martínez-Galarza

15:26–15:28

Diving into the whirlpool - understanding accretion in High-Mass X-ray Binaries with Vela X-1**Speaker**

Dr Silvia Martínez-Núñez

15:28–15:30

X-ray Reverberation Mass Measurement of Cygnus X-1**Speaker**

Mr Guglielmo Mastroserio

15:30–15:32

Discussion on the orbital ephemeris of the ADC source X 1822-371**Speaker**

Simona Michela Mazzola

15:32–15:34

A young, contracting white dwarf in the peculiar X-ray binary HD49798/RX J0648.0-4418**Speaker**

Sandro Mereghetti

15:34–15:36

Detailed study of X-ray binary system M33 X-6 behaviour with XMM-Newton**Speaker**

Ms Svetlana Nikolaeva

15:36–15:38

NICER measurements of variability time scales i supersoft X-ray sources.**Speaker**

Marina Orio

15:38–15:40

Feeding neutron stars and black holes by fresh stellar winds**Speaker**

Dr Lidia Oskinova

15:40–15:41

Timing and Spectral Analysis of Black Hole Candidate X-Ray Binary MAXI J1535-571 from NICER Observations

Speaker

Mr Özgür Can Özüdođru

15:41-15:42

The 2017 Outburst of Swift J1357.2-0933: Variable period blue dips with a hot, dense Hell wind**Speaker**

John A. Paice

15:42-15:43

Phase Lags on High Frequency Quasi-Periodic Oscillations in the transient source XTE 1701-462**Speaker**

Ms Valentina Peirano Bastías

15:43-15:44

Monitoring a variable ULX in the Circinus Galaxy**Speaker**

Sean Pike

15:44-15:45

Understanding super-Eddington accretion through winds in ultraluminous X-ray sources**Speaker**

Dr Ciro Pinto

15:45-15:46

A Chandra Legacy Observation of N132D**Speaker**

Dr Paul Plucinsky

15:46-15:48

Probing the tenuous interstellar dust medium using soft X-ray absorption features**Speaker**

Ms Ioanna Psaradaki

15:48-15:50

Accretion disk atmosphere of X-ray binaries: The case of EXO 0748-676**Speaker**

Ms Ioanna Psaradaki

15:50-15:52

CG X-1: AN ECLIPSING WOLF-RAYET ULX IN THE CIRCINUS GALAXY**Speaker**

Ms Yanli Qiu

15:52-15:54

Progress in timing properties of compact X-ray binaries by SIGHT-HXMT observation**Speaker**

Dr Jianlu Qu

15:54-15:56

Relativistic Reflection Signatures Detected from the Galactic Microquasar GRS 1758-258

Speaker

Mark T. Reynolds

15:56–15:58

Data Mining and High Performance Computing in High-energy Astrophysics: the case of the Extragalactic X-ray pulsars.**Speaker**

Guillermo Andres Rodriguez Castillo

15:58–16:00

Spin-Reversals in the X-ray Binary Pulsar OAO 1657-415**Speaker**

Ms Inga Saathoff

16:00–16:02

What can we learn from ULXs variability?**Speaker**

Chiara Salvaggio

16:02–16:04

Distribution of Matter in and around Galaxies**Speaker**

Dr Norbert S. Schulz

16:04–16:06

Variability studies of black hole X-ray binaries with NICER**Speaker**

Holger Stiele

16:06–16:08

Peculiar outbursts of an ultra luminous source likely signs of an aperiodic disc-wind**Speaker**

Holger Stiele

16:08–16:10

Accreting magnetars**Speaker**

Jose Miguel Torrejon

16:10–16:12

Effects of the Dust Scattering Halo of 1E 1740.7-2942 on it's timing properties during the hard state**Speaker**

Mr Ozan Toyran

16:12–16:14

A search for intermediate-mass black holes in the Swift-XRT catalog**Speaker**

Hugo Tranin

16:14–16:16

Discovery of one super-Eddington neutron star in an eclipsing X-ray binary**Speaker**

Dr Song Wang

16:16–16:18

NuSTAR Surveys of M31 and M33: Identifying Black Holes and Neutron Stars in the X-ray Binary Populations of our Nearest Neighbors

Speaker
DANIEL WIK

16:18–16:20

Universal detection of high-temperature emission in X-ray isolated neutron stars

Speaker
Tomokage Yoneyama

16:20–16:22

Spectral and temporal properties of thermal Comptonization in X-rays

Speaker
Mr Andrzej Zdziarski

16:22–16:24

Burst probe to XRB accretion and Insight-HXMT observation

Speaker
Shu Zhang

16:24–16:26

Using Fourier Resolved Spectroscopy to probe the X-ray variability of the BHC Swift J1753.5-0127

Speaker
Antonios Manousakis

16:26–16:28

Multi-Epoch X-ray observations of globular cluster M62

Speaker
Kwangmin Oh

16:28–16:29

The First Hard X-Ray Survey of the Central 30 Parsec of the Galactic Center Searching for Faint High Mass X-Ray Binaries

Speaker
Mr Yi Won Kim

16:30

16:30

POSTER SESSION: HOT AND DIFFUSE BARYONS

Session | **Location:** Area della Ricerca CNR-INAF via Gobetti 101 40129 Bologna ITALY

16:30–16:32

An XMM-Newton study of the hot gas in Early type galaxies

Speaker
Nazma Islam

16:32–16:34

Merging in the Coma Cluster - Slingshot Tails and Runaway Shocks

Speaker
William Forman

16:34–16:36

Multi-phase interplay in the jellyfish galaxy JW100

Speaker
Alessandro Ignesti

16:36–16:38

X-rays, SZ and Optical joint analysis of the hot and diffuse baryons within the Planck-detected triple-cluster systems

Speaker
Mr Edouard Lecoq

16:38-16:40

Dissecting the chemical properties of the ICM in massive galaxy clusters**Speaker**

Ang Liu

16:40-16:42

Can we quantify the hydrostatic bias using 2D temperature maps?**Speaker**

Dr Lorenzo Lovisari

16:42-16:44

Chemical enrichment in galaxy clusters, groups, and elliptical galaxies hot atmospheres**Speaker**

Francois Mernier

16:44-16:46

Chandra observations of the AS0295 cluster**Speaker**

Aurelia Pascut

16:46-16:48

A BCG with offset cooling: is the AGN feeding cycle broken in A2495?**Speaker**

Mr Thomas Pasini

16:48-16:50

X-ray properties of clusters in the C-EAGLE simulations**Speaker**

Ms Francesca Pearce

16:50-16:52

X-ray and SZ scaling relations from galaxies to clusters with the IllustrisTNG simulations**Speaker**

Ana-Roxana Pop

17:00

17:00

POSTER SESSION: ACTIVE GALACTIC NUCLEI**Session** | **Location:** Area della Ricerca CNR-INAF via Gobetti 101 40129 Bologna ITALY

17:00-17:02

A Catalogue of XMM-Newton BL Lacs**Speaker**

Dr Nuria Álvarez Crespo

17:02-17:04

Resolving the AGN Torus Spectrally, Spatially, and Temporally**Speaker**

Mislav Balokovic

17:04-17:06

X-raying winds in distant QSOs: the case of the Einstein Cross**Speaker**

Elena Bertola

17:06-17:08

Exploiting the Chandra Source Catalog 2.0: the first science results**Speaker**

Susanna Bisogni

17:08-17:10 Supermassive Black Hole Winds in X-rays (SUBWAYS)**Speaker**

Dr Marcella Brusa

17:10-17:11 X-ray reverberation in AGN: towards an extended corona**Speaker**

Maria D. Caballero-Garcia

17:11-17:12**Uncovering luminous and highly obscured AGN with mid-infrared surveys****Speaker**

Prof. Francisco J Carrera

17:12-17:14**The properties of extragalactic sources in the Chandra Source Catalog 2.0****Speaker**

Francesca Civano

17:14-17:16 The intrinsic fraction of type 2 AGN**Speaker**

Amalia Corral

17:16-17:18**Studying the geometry and dynamics of the inner motion flows in AGN via FeK line variability****Speaker**

Deborah Costanzo

17:18-17:20**The AGN activity in merging galaxies observed in optical and X-ray waveband****Speaker**

Alessandra De Rosa

17:20-17:22 AGN Fe-K reverberation lags explained by the outflow**Speaker**

Prof. Ken Ebisawa

17:22-17:24**Study of high redshift X-ray sources through an analysis of the deepest X-ray field observed by XMM-Newton****Speaker**

Mr Mauricio Elías Chávez

17:24-17:26**Physical parameters of the torus from mid-IR and X-ray simultaneous spectral fitting****Speaker**

Ms Donaji Esparza Arredondo

17:26-17:28 Looking near the AGN with Chandra**Speaker**

Dr Giuseppina Fabbiano

17:28-17:30 Accurate Solution of the Comptonization in X-ray Reflection Models**Speaker**

Javier García

17:30-17:32 Self-regulation between multiphase AGN outflows and hot halo rain**Speaker**

Massimo Gaspari

17:32-17:34**X-ray Spectral Fitting of AGNs in XMM-COSMOS with a Bayesian Hierarchical Method****Speaker**

Mr Lingsong Ge

17:34-17:36 X-ray observations of IR selected AGN**Speaker**

Dr Ioannis Georgantopoulos

17:36-17:38**Hunting for X-ray Quasi-Periodic Eruptions: discovery of a second QPE active galactic nucleus****Speaker**

Margherita Giustini

17:38-17:40**A global scenario for accretion/ejection around super massive black holes: the X-ray view****Speaker**

Margherita Giustini

17:40-17:42 Scattered X-Ray Radiation in Obscured Active Galactic Nuclei**Speaker**

Ms Kriti Kamal Gupta

17:42-17:44**ANEPD-CX0245: A COMPTON THICK AGN WITH DOUBLE-PEAKED NARROW LINES****Speaker**

Dr Martin Herrera-Endoqui

17:44-17:46 X-ray properties of $z > 4$ blazars**Speaker**

Luca Ighina

17:46-17:48**RELTRANS: A public model for X-ray reverberation mapping of accreting black holes****Speaker**

Adam Ingram

17:48-17:50 Spectral atlas of the XMM-CDFS deep survey**Speaker**

Kazushi Iwasawa

17:50-17:52 On the origin of steep emissivity profiles in AGN accretion discs**Speaker**

Dr Elias Kammoun

17:52-17:54 A hard look at local Seyfert 2 galaxies with NuSTAR**Speaker**

Dr Elias Kammoun

17:54-17:56 Nuclear activity in nearby quasars**Speaker**

Mr Li Ruancun

17:56-17:58

The soft gamma-ray sky observed with INTEGRAL's IBIS-PICsIT detector**Speaker**

Dr Piotr Lubinski

17:58-18:00

X-ray winds with the WINE model: a detailed photoionization treatment of relativistic outflows in quasars**Speaker**

Alfredo Luminari

18:00-18:02

Radio morphology-accretion mode link in FRII low-excitation radio galaxies**Speaker**

Mr Duccio Macconi

18:02-18:04

A multi-observatory X-ray approach to characterize heavily obscured AGN**Speaker**

Stefano Marchesi

18:04-18:06

Tracking the Iron $K\alpha$ line and the Ultra Fast Outflow in NGC 2992**Speaker**

Andrea Marinucci

18:06-18:08

Completing the new generation of Chandra Extragalactic Surveys with the Chandra Deep Wide-Field Survey**Speaker**

Dr Alberto Masini

18:08-18:10

Solving the hard X-rays excess in the NLSy 1 TON S180**Speaker**

Gabriele Matzeu

18:10-18:12

Extended X-ray Emission Near PG1407+265**Speaker**

Dr Jonathan McDowell

18:12-18:14

The XMM-Newton and NuSTAR monitoring campaign of MrK 359: a close view of the inner flows**Speaker**

Riccardo Middei

18:14-18:16

A simple model to explain apparently complicated X-ray spectral variation of NGC5548**Speaker**

Mr Takuya Midooka

18:16-18:18

AGN Clustering and Halo Occupation Distribution from X-ray surveys**Speaker**

Takamitsu Miyaji

18:18-18:20

The origin of UFOs in AGN**Speaker**

Misaki Mizumoto

18:20-18:22

The unusual suspects. A new population of X-ray weak quasars at high redshift.**Speaker**

Emanuele Nardini

18:22-18:24

The Hunt for UFOs with Chandra-HETGS**Speaker**

Michael Nowak

18:24-18:26

Reflection from AGN disks and surroundings, Unification and the CXB**Speaker**

Christos Panagiotou

18:26-18:28

The X-ray view of the repeat changing-look AGN NGC 1566**Speaker**

Dr Michael Parker

18:28-18:30

Obscured AGN in the field of J1030+0524: the X-ray and optical/infrared perspective**Speaker**

Alessandro Peca

18:30-18:32

Nature of the coronal emission in Active Galactic Nuclei**Speaker**

Ms Priyanka Rani

18:34-18:36

Quasars as standard candles**Speaker**

Guido Risaliti

18:36-18:38

X-ray analysis of the accreting supermassive black hole in the radio galaxy PKS 2251+11**Speaker**

Samuele Ronchini

18:38-18:40

Radio bimodality of Swift/BAT AGNs and SDSS quasars**Speaker**

Ms Katarzyna Rusinek

18:40-18:42

The X-ray/UV luminosities relation in high-redshift quasars**Speaker**

Francesco Salvestrini

18:42-18:44

Unveiling multiphase quasar-driven outflows in PG 1114+445**Speaker**

Roberto Serafinelli

18:44-18:46

A New Sample of Soft X-ray dominated AGNs**Speaker**

Prof. Yuichi Terashima

18:46-18:48

Tracing supermassive black hole feedback, from the event horizon up to cluster scales**Speaker**

Francesco Tombesi

18:48-18:50

The connection of star-forming rates in galaxies with black hole accretion rates of AGNs**Speaker**

Olena Torbaniuk

18:50-18:52

The evolution of XLF of Brightest Cluster Galaxies**Speaker**

Paolo Tozzi

18:52-18:54

The serendipitous source catalogue from overlapping XMM-Newton observations**Speaker**

Iris Traulsen

18:54-18:56

X-ray imaging of relativistic shock in hotspots of Pictor A radio galaxy**Speaker**

Rameshan Thimmappa

18:56-18:58

Restarting activity in hard X-ray selected giant radio galaxies**Speaker**

Francesco Ursini

18:58-19:00

The X-ray variability of LLAGN NGC 5273

Speaker

Dr Federico Vincentelli

19:00–19:02

Photoionisation Modelling of the Emission Line Regions in the Nucleus of NGC 7469**Speaker**

Mr Sam Waters

19:02–19:04

Exploring the Diversity of Type 1 Active Galactic Nuclei Identified in SDSS-IV/SPIDERS**Speaker**

Julien Wolf

19:04–19:06

Revealing the Compton-thick Active Galactic Nuclei in the Two “Non-merging” Luminous Infrared Galaxies with Broadband X-ray Observations (NGC 5135 and UGC 2608)**Speaker**

Mr Satoshi Yamada

19:06–19:08

Studying circumnuclear matter in Compton-thick AGN via spectroscopy and future X-ray polarimetry**Speaker**

Alessandra Zaino

19:08–19:10

Constraining the size of the corona with fully relativistic calculations of spectra of extended corona**Speaker**

Wenda Zhang

19:10–19:12

A sample of AGNs with known inclination angle**Speaker**

Mr Xiurui Zhao

19:12–19:14

X-rays from the youngest extragalactic radio jets**Speaker**

Malgosia Sobolewska

19:30

19:30

POSTER SESSION: FUTURE MISSIONS**Session** | **Location:** Area della Ricerca CNR-INAF via Gobetti 101 40129 Bologna ITALY

20:00–20:02

Riccardo Giacconi: X-ray Pioneer: Explorer of the Secrets of the Hoary Deep**Speaker**

William Forman

20:02–20:04

X-ray Imaging Polarimetry with a 2.5 um Pixel CMOS Sensor for Visible Light at Room Temperature

Speaker

Kazunori Asakura

20:04–20:06 Calibrating ESA's Athena mission**Speaker**

Dr Jos de Bruijne

20:06–20:08**Blazar under the lens of future X-ray polarimeters: perspectives for the IXPE mission****Speaker**

Dr Laura Di Gesu

20:08–20:10 X-ray polarimetry of extended sources with IXPE**Speaker**

Riccardo Ferrazzoli

20:10–20:12 XMM-Newton mission operations - preparing for the third decade**Speaker**

Marcus Kirsch

20:12–20:14**Polarimetry of GRS 1915+105 in thermal state with the future IXPE mission****Speaker**

Romana Mikušincová

20:14–20:16 VERT-X: a new calibration facility for the ATHENA mirror assembly.**Speaker**

Alberto Moretti

20:18–20:20**Enhancing the ATHENA effective area at low x-ray energies with unconventional overcoatings****Speaker**

Giovanni Pareschi

20:20–20:22**X-ray Spectroscopy and Polarimetry of Black Hole X-ray Binaries (BHXBs)****Speaker**

Mr Ajay Ratheesh

20:22–20:24 Astrophysics with the Athena/WFI in the 2030ies**Speaker**

Dr Arne Rau

20:24–20:26 Arcus, The Soft X-ray Grating Explorer**Speaker**

Dr Randall Smith

20:26–20:28 Integration facility for the ATHENA X-ray telescope**Speaker**

Giuseppe Valsecchi

20:28-20:30 **The Athena Community Office**

Speaker

Silvia Martínez-Núñez

20:30-20:32 **Review of the particle background of the ATHENA X-IFU instrument**

Speaker

Simone Lotti

20:32