

Sun, June 14

6:00 PM

Registration Desk & Welcome Cocktail at Santa Spazio Culturale (Yeahjasi) - Ex convento di Santa Chiara
Contribution

8:00 PM

6:30 PM

Social events: Presentation EVOOS Project and Piano Concert
Session

6:30 - 7:00 PM

Presentation: EVOOS Project (Extra-Virgin Olive Oil in Space) - Featuring Giovanni Ripa (President of Coldiretti Brindisi)

7:00 - 8:00 PM

Piano Concert: Aksinja Gioia

8:00 PM

Mon, June 15

8:30 AM

Registration

Contribution

9:15 AM

Institutional Welcomes and Opening Remarks

Session

9:15 - 9:30 AM

Institutional Welcomes (Mayor of Brindisi)

Speaker

Giuseppe Marchionna

9:30 - 9:45 AM

SEZIONE INAF Università del Salento

Speaker

Francesco Strafella

9:45 - 10:15 AM

Opening Remarks

Speaker

Fabrizio Fiore

10:15 AM

10:15 AM

S1 - Black Hole Accretion and Outflows: Focusing on the physics of accretion disks, the mechanisms driving high-velocity winds, and the geometry of circumnuclear regions

Session

10:15 - 10:45 AM

(Review) The X-ray Corona and its dependence on AGN Accretion Properties

Speaker

Claudio Ricci (University of Geneva)

10:45 - 11:00 AM

Tracing disc-corona coupling and ionising output of quasars across the Lx-Luv plane

Speaker

Susanna Bisogni (INAF-IASF Milano)

11:00 AM

11:00 AM

Coffee break

Break

11:30 AM

11:30 AM

S1 - Black Hole Accretion and Outflows: Focusing on the physics of accretion disks, the mechanisms driving high-velocity winds, and the geometry of circumnuclear regions

Session

11:30 - 11:50 AM

(Highlight) The Quasar X-ray View at the Epoch of Reionization: Implications for Early Black Hole Accretion, AGN Emissivity, and Future Surveys

Speaker
Luca Zappacosta (Istituto Nazionale di Astrofisica (INAF))

11:50 AM - 12:05 PM **X-ray Insights into Extreme SMBH Accretion Across Cosmic Time**

Speaker
Alessia Tortosa (INAF - OAR)

12:05 - 12:20 PM **Winds of Change: XRISM-Resolve X-ray spectroscopy of NGC 4051**

Speaker
Valentina Braito (Istituto Nazionale di Astrofisica (INAF))

12:20 - 12:35 PM

Cosmic Tides: Relativistic Disk Winds and the Accretion-Ejection Coupling in AGN

Speaker
Francesco Tombesi (Tor Vergata University of Rome & INAF)

12:35 - 12:50 PM

Unveiling BLR Scale Outflows: Models for the Era of High Resolution X-ray Spectroscopy

Speaker
Scott Hagen (Istituto Nazionale di Astrofisica (INAF))

12:50 - 1:05 PM

First time-evolving ionisation analysis of the X-ray spectrum of NGC 4051: energetic, distance and a Broad Line-wind unification scenario

Speaker
Alfredo Luminari (Istituto Nazionale di Astrofisica (INAF))

1:05 PM

1:05 PM

Lunch break (lunch is not provided as part of the event)

Break

2:30 PM

2:30 PM

S1 - Black Hole Accretion and Outflows: Focusing on the physics of accretion disks, the mechanisms driving high-velocity winds, and the geometry of circumnuclear regions

Session

2:30 - 2:45 PM **Discovery of ultra-fast outflows with $v_{out} > 0.3c$ in local, bright AGN**

Speaker
Laura Borrelli

2:45 - 3:00 PM

Beyond the dust: probing AGN-driven molecular outflows and phase-dependent extinction in ULIRGs

Speaker
Giovanna Speranza (Instituto de física fundamental (IFF, CSIC))

3:00 - 3:15 PM

Decoupling Line and Continuum Variability: Evidence for Disc Truncation in High-Accretion Quasars

Speaker
Chiara Niccolai (Scuola Superiore Meridionale)

	<p>3:15 - 3:30 PM</p> <p>Directly tracking the accretion disc formation around a supermassive black hole</p> <p>Speaker Riccardo Middei (INAF-OAR)</p>
<p>3:45 PM</p>	<p>3:30 - 3:45 PM</p> <p>X-ray polarization in Radio-Quiet AGN: insights from the Wedge Corona model</p> <p>Speaker Daniele Tagliacozzo (Università degli Studi Roma Tre)</p>
<p>3:45 PM</p>	<p>Coffee break</p> <p>Break</p>
<p>4:15 PM</p>	
<p>4:15 PM</p>	<p>S9 - Current and Future Facilities for AGN Science: Discussing the implementation and scientific exploitation of major current and future space-based and ground-based facilities with Italian involvement, focusing on maximizing their impact on AGN studies</p> <p>Session</p>
<p>4:35 PM</p>	<p>4:15 - 4:35 PM</p> <p>(Highlight) Millimeter and Infrared Probes of Active Galactic Nuclei: From ALMA to the Future Infrared mission PRIMA</p> <p>Speaker Francesca Pozzi (University of Bologna)</p>
<p>4:35 PM</p>	<p>S2 - Relativistic Jets and Particle Acceleration: Investigating the launching, collimation, and energetic processes within relativistic jets, including their composition and impact</p> <p>Session</p>
<p>4:35 PM</p>	<p>4:35 - 4:55 PM</p> <p>(Highlight) The Accretion-Ejection Mechanism in Low-Power Radio AGN</p> <p>Speaker Ranieri Diego Baldi (Istituto Nazionale di Astrofisica (INAF))</p>
<p>4:35 PM</p>	<p>4:55 - 5:10 PM</p> <p>The life cycle of relativistic jets: low-power radio sources in the spotlight</p> <p>Speaker Monica Orienti (Istituto Nazionale di Astrofisica (INAF))</p>
<p>5:55 PM</p>	<p>5:10 - 5:25 PM</p> <p>From compact to giant: the lives of radio AGN on the smallest and largest scales</p> <p>Speaker Kathleen Kelly Lindiwe Charlton (Istituto Nazionale di Astrofisica (INAF))</p>
<p>6:30 PM</p>	<p>Social events: Brindisi city tour & Football match</p> <p>Session</p>
	<p>6:30 - 8:00 PM</p> <p>Brindisi City Tour - Departing from Palazzo Nervegna (Italian & English)</p>

8:00 PM

7:00 - 8:00 PM

Football match

Tue, June 16

9:30 AM

S7 - The Early Growth of Supermassive Black Holes: Examining the formation, growth rates, and census of SMBHs in the high-redshift universe ($z > 6$) and their role in cosmic reionization

Session

9:30 - 10:00 AM

(Review) The Formation and Early Growth of Supermassive Black Holes

Speaker

Roberto Maiolino (University of Cambridge)

10:00 AM

10:00 AM

S2 - Relativistic Jets and Particle Acceleration: Investigating the launching, collimation, and energetic processes within relativistic jets, including their composition and impact

Session

10:00 - 10:30 AM

(Review) Dynamics, dissipation and emission of relativistic jets: new observational clues and theoretical scenarios.

Speaker

Fabrizio Tavecchio (Istituto Nazionale di Astrofisica (INAF))

10:30 - 10:45 AM

A detailed study of the radio-gamma connection in a large sample of 4LAC AGNs

Speaker

Alessandro Paggi

10:45 - 11:00 AM

Tracing the end of AGN jets: the first large sample of remnant radio galaxies

Speaker

Marisa Brienza (Istituto Nazionale di Astrofisica (INAF))

11:00 AM

11:00 AM

Coffee break

Break

11:30 AM

11:30 AM

S2 - Relativistic Jets and Particle Acceleration: Investigating the launching, collimation, and energetic processes within relativistic jets, including their composition and impact

Session

11:30 - 11:45 AM

Modeling of multi-zone Synchrotron polarization of blazars: insights from new data and connection to particle acceleration

Speaker

Andrea Tramacere

11:45 AM - 12:00 PM

A FLASH on Blazars: mapping relativistic jets from MHz radio to GeV gamma rays with SKA pathfinders**Speaker**

Meriem Behiri

12:00 - 12:15 PM

Unveiling the Physics of Blazar Emission Through Quasi-Periodic Oscillations Studies**Speaker**

Alba Rico

12:15 PM

12:15 PM

S3 - Black Holes Across the Mass Scale and Time-Domain Probes: Exploring the accretion and ejection coupling through analogies and differences between supermassive black holes (SMBHs), intermediate and stellar-mass compact objects and through transient sources

Session

12:15 - 12:45 PM

(Review) Accretion and jets in X-ray binaries**Speaker**

Sara Elisa Motta (Istituto Nazionale di Astrofisica (INAF))

12:45 PM

12:45 PM

Il divario di genere nella scienza

Contribution

1:10 PM

1:10 PM

Lunch break (lunch is not provided as part of the event)

Break

2:35 PM

2:35 PM

S3 - Black Holes Across the Mass Scale and Time-Domain Probes: Exploring the accretion and ejection coupling through analogies and differences between supermassive black holes (SMBHs), intermediate and stellar-mass compact objects and through transient sources

Session

2:35 - 2:55 PM

(Highlight) Transient Probes of Intermediate-Mass Black Holes: TDEs and QPEs**Speaker**

Elisa Bortolas

2:55 - 3:10 PM

A fundamental plane of black hole accretion in the millimetre**Speaker**

Ilaria Ruffa (INAF - OAA)

3:10 - 3:25 PM

Rising Tides in Active Galaxies: Nuclear Transients and Episodic Activity in NGC 7213, AT2021hdr, and SDSS J1335+0728**Speaker**

Gabriele Bruni (INAF - Istituto di Astrofisica e Planetologia Spaziali)

3:25 - 3:40 PM

Feeding a Black Hole with a star: Tidal Disruption Events in the Time Domain Astronomy Golden Age

	<p>Speaker Francesca Onori (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>3:40 - 3:55 PM HLX-1: a TDE on an Intermediate-Mass Black Hole?</p>
3:55 PM	<p>Speaker Maya Garbaccio Gili (Istituto Nazionale di Astrofisica (INAF))</p>
3:55 PM	<p>S3 - Black Holes Across the Mass Scale and Time-Domain Probes: Exploring the accretion and ejection coupling through analogies and differences between supermassive black holes (SMBHs), intermediate and stellar-mass compact objects and through transient sources Session</p>
	<p>3:55 - 4:10 PM</p> <p>The Timedomes project: probing AGN populations through legacy optical monitoring campaigns.</p>
	<p>Speaker Maurizio Paolillo (Università di Napoli Federico II)</p>
4:25 PM	<p>4:10 - 4:25 PM Coffee break</p>
4:25 PM	<p>S4 - Binary and Dual AGN Systems: Studying the observational signatures, dynamics, and gravitational wave implications of closely separated and merging black hole systems Session</p>
	<p>4:25 - 4:55 PM</p> <p>(Review) Dual and Binary AGN: observational signatures and connections to Gravitational-Waves</p>
	<p>Speaker Paola Severgnini (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>4:55 - 5:10 PM Multiple AGN systems at $z \sim 3$ revealed by JWST/NIRSpec IFU</p>
	<p>Speaker Michele Perna (Centro de Astrobiología (CAB), INTA-CSIC)</p>
	<p>5:10 - 5:25 PM Dual AGN and where to find them</p>
	<p>Speaker Filippo Mannucci (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>5:25 - 5:40 PM</p> <p>Black Hole Growth in the Densest Regions of the Universe: AGN activity in protoclusters from Cosmic dawn to the present days</p>
5:45 PM	<p>Speaker Alberto Traina (Istituto Nazionale di Astrofisica (INAF))</p>
6:30 PM	<p>Social events: Public Lecture (Palazzo Nervegna) - Prof. Roberto Maiolino "La nascita e l'evoluzione di stelle, galassie e buchi neri attraverso le epoche cosmiche" Session</p>
8:00 PM	

Wed, June 17

9:30 AM

S4 - Binary and Dual AGN Systems: Studying the observational signatures, dynamics, and gravitational wave implications of closely separated and merging black hole systems

Session

9:30 - 9:50 AM

(Highlight) Gravitational Waves from the Cosmic Dawn: Tracing Cosmic Black Hole Binaries with ET, LGWA and LISA

Speaker

Rosa Valiante

9:50 - 10:05 AM

Dual AGN at Cosmic Noon: Bridging Observations and Theory with the First Statistical Sample

Speaker

Martina Scialpi (Università di Firenze, Università di Trento, INAF/OAA)

10:05 - 10:20 AM

MBH pairs below 100 pc (and more?): toward robust detection strategies

Speaker

Fabio Rigamonti

10:20 - 10:35 AM

Did We Just Confirm a Gravitational Wave Recoiling Black Hole in 3C 186?

Speaker

Marco Chiaberge

10:35 - 10:50 AM

The role of major mergers in triggering super-Eddington accretion

Speaker

Riccardo Caleno (Sapienza Università di Roma)

10:50 AM

10:50 AM

Coffee break

Break

11:15 AM

11:15 AM

Poster Session 1

Session

12:00 PM

12:00 PM

S5 - Multi-Messenger: Leveraging variability studies, gravitational waves, and high-energy neutrinos (multi-messenger astronomy) to understand the immediate vicinity of the central engine

Session

12:00 - 12:30 PM

(Review) Cosmic-Ray Acceleration and Hidden Neutrino Production in Seyfert Galaxies

	<p>Speaker Enrico Peretti</p>
	<p>12:30 - 12:45 PM</p> <p>A VHE gamma-ray perspective of Neutrino emitting Seyfert candidates</p> <p>Speaker Sweta Menon (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>12:45 - 1:00 PM</p> <p>All they know is what they are not: the accretion of neutrino-emitting blazars</p> <p>Speaker Gaia Delucchi (Istituto Nazionale di Astrofisica (INAF))</p>
1:00 PM	
1:00 PM	<p>Lunch break (lunch is not provided as part of the event)</p> <p>Break</p>
2:30 PM	
2:30 PM	<p>Poster Session 2</p> <p>Session</p>
3:00 PM	
3:00 PM	<p>S5 - Multi-Messenger: Leveraging variability studies, gravitational waves, and high-energy neutrinos (multi-messenger astronomy) to understand the immediate vicinity of the central engine</p> <p>Session</p>
	<p>3:00 - 3:20 PM (Highlight) Extragalactic cosmic rays</p> <p>Speaker Stefano Gabici</p>
3:20 PM	
3:20 PM	<p>S6 - AGN Feedback and the Host Galaxy: Analyzing how AGN energy output (kinetic and radiative feedback) impacts star formation and gas distribution within the host galaxy and its surrounding dark matter halo</p> <p>Session</p>
	<p>3:20 - 3:50 PM</p> <p>(Review) Exploring the impact of (radio) AGN on galactic scales by tracing different phases of the gas</p> <p>Speaker Raffaella Morganti (ASTRON/Kapteyn Institute)</p>
3:50 PM	
3:50 PM	<p>Coffee break</p> <p>Break</p>
4:20 PM	
4:20 PM	<p>S6 - AGN Feedback and the Host Galaxy: Analyzing how AGN energy output (kinetic and radiative feedback) impacts star formation and gas distribution within the host galaxy and its surrounding dark matter halo</p> <p>Session</p>
	<p>4:20 - 4:40 PM</p> <p>(Highlight) The physical properties, acceleration mechanism and impact of AGN outflows from low to high redshift</p>

	<p>Speaker Giovanni Cresci (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>4:40 - 4:55 PM</p> <p>Unveiling the driving mechanism of AGN-driven outflows: a multi-wavelength perspective</p> <p>Speaker Cosimo Marconini (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>4:55 - 5:10 PM</p> <p>Disrupting the ISM: How AGN Feedback Reshapes Molecular Gas Clumpiness</p> <p>Speaker Federico Esposito (Observatorio Astronómico Nacional (OAN-IGN, Madrid))</p>
5:25 PM	<p>5:10 - 5:25 PM Unveiling the role of multi-phase AGN outflows with MIRACLE</p> <p>Speaker Matteo Ceci (Università di Firenze)</p>
6:30 PM	<p>Social events Session</p>
	<p>6:30 - 7:00 PM Meet at Autorità Portuale to take a boat to Castello Alfonsino</p>
	<p>7:00 - 8:30 PM Visit to Castello Alfonsino</p>
	<p>8:30 - 10:30 PM Social Dinner at "Al Porticciolo" Restaurant</p>
10:35 PM	<p>10:30 - 10:35 PM Bus back to Autorità Portuale</p>

Thu, June 18

9:30 AM

S6 - AGN Feedback and the Host Galaxy: Analyzing how AGN energy output (kinetic and radiative feedback) impacts star formation and gas distribution within the host galaxy and its surrounding dark matter halo

Session

9:30 - 10:00 AM

(Review) Probing the link between dense environment and SMBH growth at high redshift

Speaker

Fabio Vito (Istituto Nazionale di Astrofisica (INAF))

10:00 - 10:15 AM

An HIPER view of AGN feedback on the gas reservoirs at cosmic noon

Speaker

Elena Bertola (Istituto Nazionale di Astrofisica (INAF))

10:15 - 10:30 AM

Radio-jets Feedback at play at Cosmic Dawn: An ALMA [CII] survey of 26 Radio-Loud Quasars at $z > 5$

Speaker

Chiara Mazzucchelli (Universidad Diego Portales, Chile)

10:30 - 10:45 AM

Cracking the quasar accretion puzzle: a thin disc and an intrinsically narrow Eddington ratio distribution are enough

Speaker

Bartolomeo Trefoloni (Scuola Normale Superiore)

10:45 AM

10:45 AM

S7 - The Early Growth of Supermassive Black Holes: Examining the formation, growth rates, and census of SMBHs in the high-redshift universe ($z > 6$) and their role in cosmic reionization

Session

10:45 - 11:05 AM

(Highlight) Pushing the redshift frontier: Discovery and Characterization of Quasars at Cosmic Dawn with Euclid

Speaker

Silvia Belladitta (Max Planck Institute for Astronomy)

11:05 AM

11:05 AM

Coffee break

Break

11:35 AM

11:35 AM

S7 - The Early Growth of Supermassive Black Holes: Examining the formation, growth rates, and census of SMBHs in the high-redshift universe ($z > 6$) and their role in cosmic reionization

Session

11:35 - 11:50 AM

AGN-heated dust revealed in (most) Little Red Dots

Speaker

Ivan Delvecchio (INAF-OAS)

11:50 AM - 12:05 PM

Independent evidence for evolving dark energy from high-redshift AGN probes

Speaker

Elisabeta Lusso (Università di Firenze. Dipartimento di fisica e astronomia)

12:05 - 12:20 PM

High-redshift galaxy ecosystems: multi-phase gas flows and quasar feedback at $z > 6$

Speaker

Manuela Bischetti (Università di Pisa)

12:20 - 12:35 PM

GA-NIFS: The cosmic evolution of AGN outflows up to $z \sim 3-6$ with JWST NIRSpec

Speaker

Giacomo Venturi (Scuola Normale Superiore)

12:35 - 12:50 PM

Out of Place: Evidence for an Off-Center Black Hole at $z = 7.2$

Speaker

Sandra Zamora (Scuola Normale Superiore di Pisa)

12:50 - 1:05 PM

Early Black Hole Growth via Super-Eddington Accretion: insights from High-Resolution Simulations

Speaker

Alessandro Trinca

1:05 PM

1:05 PM

Lunch break (lunch is not provided as part of the event)

Break

2:30 PM

2:30 PM

Social events: Torre Guaceto Nature Reserve & Dinner at "La braceria"

Session

2:30 - 3:30 PM

Meet at Autorità Portuale to take a bus to Torre Guaceto Nature Reserve (visit & swim)

3:30 - 7:30 PM

Excursion: Trip to Torre Guaceto Nature Reserve

8:00 - 10:30 PM

Dinner at "La braceria" (near Torre Guaceto Nature Reserve)

10:30 - 10:35 PM

Bus back to Autorità Portuale

10:35 PM

Fri, June 19

9:40 AM

S8 - Cosmological Implications and Large-Scale Environment: Discussing the role of AGN in structure formation and galaxy evolution models, including the effect of the large-scale environment on AGN activity

Session

9:40 - 10:00 AM

(Highlight) The sharp high energy sky seen by XRISM

Speaker

Elisa Costantini (SRON, Netherlands Institute for Space Research)

10:00 - 10:20 AM

(Highlight) The LX-LUV relation in quasars - A New Sample

Speaker

Matilde Signorini (Istituto Nazionale di Astrofisica (INAF))

10:20 - 10:35 AM

The "Menus" of SMBHs in the most massive galaxies: hot, warm, or cold gas?

Speaker

Francesco Ubertosi (Università di Bologna)

10:35 - 10:50 AM

Quantifying the AGN enhancement in $z > 2$ protoclusters

Speaker

Monica Natalia Isla Llave (Istituto Nazionale di Astrofisica (INAF))

10:50 - 11:05 AM

Bright Beacons in the Cosmic Web: Cosmology with QUBRICS

Speaker

Stefano Cristiani

11:05 AM

11:05 AM

Coffee break

Break

11:35 AM

11:35 AM

S8 - Cosmological Implications and Large-Scale Environment: Discussing the role of AGN in structure formation and galaxy evolution models, including the effect of the large-scale environment on AGN activity

Session

11:35 - 11:50 AM

First results from the Study of QUasar Environment at Early-z Epochs (SQUEEZE)

Speaker

Virginia Lucia Cavicchi (Istituto Nazionale di Astrofisica (INAF))

11:50 AM - 12:05 PM

HIDE AND SEEK: cosmic evolution of the ISM and its implications for nuclear obscuration.

Speaker

Lucia Fiorani (Università di Bologna)

	<p>12:05 - 12:20 PM Bridging the gap: AGN feedback GPU- accelerated simulations from micro to macro scales Speaker Vieri Cammelli</p>
12:35 PM	<p>12:20 - 12:35 PM X-ray AGN in protoclusters of galaxies Speaker Paolo Tozzi (Istituto Nazionale di Astrofisica (INAF))</p>
12:35 PM	<p>S9 - Current and Future Facilities for AGN Science: Discussing the implementation and scientific exploitation of major current and future space-based and ground-based facilities with Italian involvement, focusing on maximizing their impact on AGN studies Session</p>
12:55 PM	<p>12:35 - 12:55 PM (Highlight) The Cherenkov Telescope Array Observatory and its gamma-ray view on Active Galactic Nuclei Speaker Giacomo Bonnoli (Istituto Nazionale di Astrofisica (INAF))</p>
12:55 PM	<p>Lunch break (lunch is not provided as part of the event) Break</p>
2:20 PM	<p>S9 - Current and Future Facilities for AGN Science: Discussing the implementation and scientific exploitation of major current and future space-based and ground-based facilities with Italian involvement, focusing on maximizing their impact on AGN studies Session</p>
2:20 PM	<p>2:20 - 2:40 PM (Highlight) Investigating AGN in the SKA Era Speaker Isabella Prandoni (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>2:40 - 3:00 PM (Highlight) NewAthena Speaker Luigi Piro (Istituto Nazionale di Astrofisica (INAF))</p>
	<p>3:00 - 3:20 PM (Highlight) KM3NeT/ARCA: status, recent results and perspectives for AGN studies Speaker Simone Biagi (INFN, Laboratori Nazionali del Sud)</p>
	<p>3:20 - 3:40 PM (Highlight) The IXPE revolution in AGN: from the hot corona to the torus Speaker Vittoria Elvezia Gianolli (Clemson University)</p>
4:00 PM	<p>3:40 - 4:00 PM (Highlight) The AGN content in eRASS/DR1 and eRASS/DR2 Speaker Mara Salvato (MPE)</p>

4:00 PM

Closing Remarks and End of Conference

Session

4:00 - 4:30 PM **Concluding remarks**

Speaker

Andrea Merloni

4:30 PM

9:00 PM

Social events: Teatro Scienza Special Event - "Crazy Space" - Teatro Verdi (Brindisi)

Session

10:30 PM