

# Observing the Universe in Motion: 5 Years of GRAVITY

All durations are in minutes. Presentation slots show "talk + questions" durations.

## Sunday, Oct 23

from 16:00 onwards  
18:30

**ARRIVAL and REGISTRATION**  
**LIGHT DINNER**

## Monday, Oct 24

Session	Time	Duration	Speaker	Title/Event
<b>The Galactic Centre</b>	08:00			<b>BREAKFAST</b>
	09:00	10	LOC	Welcome, logistics
Chair: Paulo Garcia	09:10	30 + 10	Eisenhauer	Five Years of GRAVITY - A Revolution in High Angular Resolution Astronomy
	09:50	30 + 10	Genzel	The Galactic Center with GRAVITY
	10:30	30		<b>COFFEE BREAK</b>
	11:00	30 + 10	Do	Sgr A* and fundamental physics at the Galactic center
	11:40	20 + 5	Drescher	Stars within the inner 250 mas of Sgr A*
	12:05	20 + 5	Stadler	Bayesian Deep Imaging of the Galactic Center
	12:30			<b>LUNCH</b>
Chair: Christian Straubmeier	14:00	30 + 10	Johnson	Black Hole Flares, Shadows, and Photon Rings: Probing Strong-Field Gravity with the Next Generation of Interferometry Experiments
	14:40	20 + 5	Gillessen	R0
	15:05	20 + 5	Cerutti	Particle acceleration in black hole magnetospheres
	15:30	30		<b>COFFEE BREAK</b>
	16:00	30 + 10	Rezzolla	Imaging supermassive black holes
	16:40	20 + 5	Perrin	Flares at the Galactic Center with GRAVITY
	17:05	20 + 5	Witzel	NIR variability of Sgr A* and the search for periodicity
	17:30	20 + 5	Widmann	Polarization analysis of SgrA* flares
	18:30			<b>DINNER</b>

## Tuesday, Oct 25

Session	Time	Duration	Speaker	Title/Event
<b>Exoplanets</b>	08:00			<b>BREAKFAST</b>
Chair: Guy Perrin	09:00	30 + 10	Kreidberg	Exoplanets in the Next Decade and Beyond
	09:40	20 + 5	Brandt	Astrometric Detection and Characterization of Exoplanets with Gaia
	10:05	20 + 5	Gardner	The ARMADA Survey: Probing for Exoplanets with Precision Astrometry at VLTI and CHARA
	10:30	30		<b>COFFEE BREAK</b>
	11:00	30 + 10	Helling	Weather and climate regimes of exoplanets around different stars
	11:40	20 + 5	Nowak	Astrometric tools and analysis of interferometric exoplanet
	12:05	20 + 5	Molliere	Exoplanet atmospheric modeling
	12:30			<b>LUNCH</b>
Chair: Wolfgang Brandner	14:00	30 + 10	Lacour	Results, learnings, and outlook from the exoGRAVITY LP
	14:40	20 + 5	Defrere	Prospects for characterising exoplanets at the snow line with a nulling interferometry mode on GRAVITY+
	15:05	20 + 5	Helled	Revealing the nature of giant planets
	15:30	30		<b>COFFEE BREAK</b>
	16:00	20+5	Wang	The Unique Role of GRAVITY in Exoplanet Characterization
	16:25	20 + 5	Emsenhuber	Planet formation: confronting theory and exoplanet observations
	16:30	20 + 5	Merand	The short and long term future of VLTI
	18:30			<b>DINNER</b>

## Wednesday, Oct 26

Session	Time	Duration	Speaker	Title/Event
<b>The Future of Interferometry</b>	08:00			<b>BREAKFAST</b>
Chair: Dieter Lutz	09:30	30 + 10	Wuillez	GRAVITY+
	10:10	20 + 5	Schaefer	Current and Future Status of the CHARA Array
	10:35	30		<b>COFFEE BREAK</b>
	11:05	20 + 5	Kraus	VLTI @ 1 micron: BIFROST key science cases and synergies
	11:30	20 + 5	Matthews	Status and future prospects of intensity interferometry
	12:30			<b>CELEBRATION LUNCH ON WALLBERG</b>
	18:30			<b>DINNER</b>

**Thursday, Oct 27**

<b>Session</b>	<b>Time</b>	<b>Duration</b>	<b>Speaker</b>	<b>Title/Event</b>
<b>AGN</b>	08:00			<b>BREAKFAST</b>
Chair: Ric Davies	09:00	30 + 10	Shimizu	Resolving the BLR of AGN with GRAVITY/GRAVITY+
	09:40	30 + 10	Horne	Echo Tomography of Black Hole Accretion Flows in AGN
	10:20	20 + 5	Du	Super-Eddington Accreting Massive Black Holes Project: Some Latest Progress
	10:45	30		<b>COFFEE BREAK</b>
	11:15	30 + 10	Laor	The physics of the broad line region
	11:55	20 + 5	Dong	Finding Isolated Stellar-Mass Black Holes with GRAVITY
	12:30			<b>LUNCH</b>
Chair: Eckhard Sturm	14:00	30 + 10	Hönig	Tori, disks, and winds: the parsec-scale AGN environment resolved by IR interferometry
	14:40	20 + 5	Shangguan	AGN dust continuum observations with GRAVITY
	15:05	20 + 5	Kishimoto	The CHARA Array observations of AGN dusty structure at hundred micro-arcseconds scale
	15:30	30		<b>COFFEE BREAK</b>
	16:00	20 + 5	Gamez-Rosas	MATISSE observations of NGC 1068
	16:25	20 + 5	Tristram	Mid-IR and submm interferometry of the nucleus of the Circinus AGN
	16:50	20 + 5	Vincent	Non-Kerr models of black holes
	18:30			<b>BAVARIAN BUFFET</b>

**Friday, Oct 28**

<b>Session</b>	<b>Time</b>	<b>Duration</b>	<b>Speaker</b>	<b>Title/Event</b>
<b>Stars &amp; Disks</b>	08:00			<b>BREAKFAST</b>
Chair: Linda Tacconi	09:00	30 + 10	Perraut	The innermost regions of young stars as probed by GRAVITY
	09:40	20 + 5	Garcia Lopez	Accretion and winds in young stars
	10:05	20 + 5	Paladini	The GRAVITY view on evolved stars
	10:30	30		<b>COFFEE BREAK</b>
	11:00	30 + 10	Caselli	From clouds to planets: the astrochemical link
	11:40	20 + 5	Grant	Probing the inner 10 AU of protoplanetary disks with infrared spectroscopy
	12:05	20 + 5	Bourdarot	The inner 1AU of protoplanetary disks: accretion outburst and disk structure resolved by GRAVITY

Chair: Gail Schaefer

12:30

14:00

14:40

15:05

15:30

16:00

16:40

17:05

18:30

30 + 10

20 + 5

20 + 5

30

30 + 10

20 + 5

20 + 5

van der Marel

Sanchez Bermudes

Montarges

Flock

Baron

Millour

**LUNCH**

The ALMA revolution of protoplanetary disks

Imaging Massive Stars with GRAVITY/VLTI

Betelgeuse and cool evolved stars at high angular resolution

**COFFEE BREAK**

Gas and dust dynamics and evolution in protoplanetary disks

Interferometric image reconstruction with MCMC

Tori, Binaries, and Disks

**DINNER**

**Saturday, Oct 29**

**Time**

08:00

09:00

**Title/Event**

**BREAKFAST**

**CHECK-OUT & DEPARTURE**

## POSTERS

<b>Name</b>	<b>Title</b>
Wolfgang Brandner	5+ years of CIAO observations of GC IRS7: performance metrics, trends & glitches
Denis Defrere	GRAVITY+: first results of the MANHATTAN-II upgrade
Stefan Kraus	Imaging the highly dynamical inner-most au in protoplanetary discs
Daryl Joe Santos	Constraining the BLR size and SMBH mass of Four AGN with GRAVITY