

PREFACE

Galactic Center Workshop 2006

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Related content

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Impressions of the Physikzentrum in Bad Honnef.



Conference group image, Saturday, April 22, 2006.

Contents of the Proceedings

This volume is organized following the order of the speakers during the conference. The schedule of oral presentations below serves as a guide and highlights the topics of the individual sessions. Contributions on poster presentations follow the articles on the oral presentations and are sorted into the order that is shown in the table of the poster presentations below.

Not all authors have submitted their contribution in written form. Existing articles in this volume are indicated by an asterisk behind the name of the author in the tables below.

We recommend strongly the summary article *News from the year 2006 Galactic Centre workshop* by Sergei Nayakshin and Mark Morris (speakers for the summary talk). It provides a concise overview and highlights some of the most exciting results and debated issues.

Schedule

Session I - Large Scale Structures in the GC: ISM and Magnetic Fields

Tuesday, April 18

Chairs: Cornelia Lang & Johannes Staguhn

09:00 - 09:20	Welcome	Rainer Schödel & Andreas Eckart
09:20 - 09:50	The Galactic Center Magnetosphere	Mark Morris* (invited)
09:50 - 10:10	The Strength and Structure of the Galactic Center Magnetic Field	Ted LaRosa*
10:10 - 10:30	Interaction between the Galactic Center 50-km/s Molecular Cloud and SgrA East Shell	Masato Tsuboi*
10:30 - 10:50	Molecular loops in the Galactic Center: Evidence for magnetic flotation to accelerate molecular gas	Yasuo Fukui
10:50 - 11:10	Coffee Break	
11:10 - 11:30	Shock Interactions between Sgr A East and its Environs	Sungho Lee*
11:30 - 11:50	AFGL 5376: A Large Scale Shock Region Near the Galactic Center	Johannes Staguhn
11:50 - 12:10	Hot molecular gas in the central region around Sgr A*	Maria Montero-Castano*
12:10 - 12:30	Physical conditions and molecular chemistry of the Central Molecular Zone	Nemesio Roddriguez-Fernández*

Session II - Large Scale Structures in the GC/Surveys

Tuesday, April 18

Chairs: Fred Baganoff & Masaaki Sakano

14:00 - 14:30	High energy emission from the GC	Andrea Goldwurm* (invited)
14:30 - 15:00	New X-ray views of the Galactic Center observed with Suzaku	Katsuji Koyama* (invited)
15:00 - 15:20	The 6.7-keV iron-line emission in the Galactic Centre	Robert Warwick*
15:20 - 15:40	Radio Pulsars in the Galactic Center	Joseph Lazio*
15:40 - 16:00	Coffee Break	
16:00 - 16:30	Chandra Observations of the Galactic Center: High Energy Processes at Arcsecond Resolution	Daniel Wang* (invited)
16:30 - 16:50	A Candidate Neutron Star within the Radio Shell of Sgr A East	Sangwook Park*
16:50 - 17:10	The Arches Cluster and G0.1-0.1 cloud - A view with fluorescent lines	Masaaki Sakano*
17:10 - 17:30	The H.E.S.S. View of the Central 200 Parsecs	Jim Hinton*
17:30 - 18:00	Discussion Sessions I + II	

Session III - Star Formation at the Center of the Milky Way

Wednesday, April 19

Chairs: Janet Simpson & Francisco Najarro

09:00 - 09:20	A mid-infrared survey of the inner 2×1.5 degrees of the Galaxy with Spitzer/IRAC	Susan Stolovy*
09:20 - 09:40	The Stellar Population in the Galactic Center: Insights from the Spitzer Space Telescope	Angela Coteria*
09:40 - 10:10	The formation of high mass stars	Cathie Clarke* (invited)
10:10 - 10:40	The Two Young Star Disks in the Central Parsec of the Galaxy	Thibaut Paumard* (invited)
10:40 - 11:00	Coffee Break	
11:00 - 11:30	Star formation in the GC: observational constraints and theory	Sergei Nayakshin* (invited)
11:30 - 11:50	The Arches cluster - evidence for a truncated MF in the GC?	Andrea Stolte*
11:50 - 12:20	Estimation of Low-End Mass Function of the Arches Cluster	Sungsoo Kim* ¹
12:20 - 12:40	Metallicity in the GC	Francisco Najarro* (invited)

Session IV - The Nuclear Stellar Cluster of the Milky Way

Wednesday, April 19

Chairs: Seth Hornstein & Thibaut Paumard

14:00 - 14:30	Stellar Processes near Sgr A*	Tal Alexander* (invited)
14:30 - 14:50	Models of mass segregation at the Galactic Centre	Marc Freitag*
14:50 - 15:10	The structure of the GC nuclear stellar cluster	Rainer Schödel*
15:10 - 15:30	NIR spectral classification/Dynamics of the stellar cluster	Thomas Ott
15:30 - 15:50	Stellar and wind properties of massive stars in the central parsec of the Galaxy	Fabrice Martins*
15:50 - 16:10	Coffee Break	
16:10 - 16:30	First infrared VLTI fringes on Galactic Center sources	Jörg-Uwe Pott*
16:30 - 17:00	Galactic Center Youth: Orbits and Origins of the Young Stars in the Central Parsec	Jessica Lu* (invited)
17:00 - 17:20	Stellar orbits around SgrA*	Sascha Trippe*
17:20 - 17:40	On the puzzle of S-stars	Yuri Levin
17:40 - 18:00	Massive perturbers in the Galactic Center	Hagai Perets*
18:00 - 18:30	Discussion Sessions III + IV	

Session V - The Nuclei of Nearby Galaxies

Thursday, April 20

Chair: Jim Moran

09:00 - 09:20	Resonant relaxation near massive black holes	Clovis Hopman*
09:20 - 09:40	Instabilities in Nearly Keplerian Stellar Systems around Massive Dark Objects	Rachid Touma Jihad
09:40 - 10:00	Coffee Break	
10:00 - 10:30	Molecular gas in nearby galaxies	Linda Tacconi (invited)
10:30 - 10:50	M31*	Lorant Sjouwerman
10:50 - 11:10	Radio Linear and Circular Polarization from M81*	Andreas Brunthaler
11:10 - 11:40	M81*: a bridge between Sgr A* and LLAGN	Sera Markoff (invited)

¹ see article by Jihye Shin

Session VI - The Nuclei of Nearby Galaxies

Thursday, April 20

Chair: Linda Tacconi

14:00 - 14:20	Dusty Tori in Low-Luminosity AGN?	Thomas Beckert
14:20 - 14:40	Sub-Milliarcsecond Imaging of SgrA* and M87	Thomas Krichbaum*
14:40 - 15:00	Radio spectra and radio-loudness of low-luminosity AGNs	Akihiro Doi*
15:00 - 15:20	The Nature of Local Low-Luminosity Galaxies	Mercedes Filho*
15:20 - 15:40	Coffee Break	
15:40 - 16:10	Discussion Sessions V + VI	

Session VII - Observations of Sagittarius A*

Friday, April 21

Chair: Stefan Gillessen

09:00 - 09:30	The Submillimeter Polarization of Sgr A*	Dan Marrone* (invited)
09:30 - 09:50	Flux monitoring of Sagittarius A* at mm-wavelengths	Atsushi Miyazaki*
09:50 - 10:20	High Resolution Imaging of Sagittarius A*	Geoffrey Bower* (invited)
10:20 - 10:40	Coffee Break	
10:40 - 11:00	High-Resolution Millimeter-VLBI Imaging of Sgr A*	Zhi-Qiang Shen*
11:00 - 11:20	Short time variations of SgrA*	Makoto Miyoshi
11:20 - 11:40	Simultaneous Multi-Wavelength Spectrum of Sgr A* and Long Wavelength Cutoff at $\lambda > 30$ cm	Tao An*
11:40 - 12:10	Discussion Session VII	

Session VIII - Sagittarius A*: Observations and Theory

Saturday, April 22

Chair: Rainer Schödel

09:00 - 09:30	Multi-wavelength and polarimetric observations of Sagittarius A*	Andreas Eckart* (invited)
09:30 - 09:50	Infrared/X-ray intensity variations and the color of Sgr A*	Seth Hornstein*
09:50 - 10:10	Diffraction Limited Imaging Spectroscopy of a Sgr A* Flare with OSIRIS	Alfred Krabbe*
10:10 - 10:30	Variations in the spectral slope of Sgr A* during a NIR flare	Stefan Gillessen*
10:30 - 10:50	Coffee Break	
10:50 - 11:10	Periodic Modulations in an X-ray Flare from Sgr A*	Guillaume Belanger*
11:10 - 11:40	Accretion models of Sgr A*	Feng Yuan* (invited)
11:40 - 12:00	Variable accretion of stellar winds onto Sgr A*	Jorge Cuadra*

Session IX - Sagittarius A*: Observations and Theory

Saturday, April 22

Chair: Tal Alexander

14:00 - 14:20	Testing General Relativity with High-Resolution Imaging of Sgr A*	Avery Broderick*
14:20 - 14:40	The growth of the black hole at the Galactic Center	Wolfgang Duschl
14:40 - 15:00	Constraining Dark Matter Properties with Sgr A*	Peter Biermann* ²
15:00 - 15:20	Coffee Break	
15:20 - 15:50	Discussion Sessions VIII + IX	
15:50 - 16:50	Summary talk and final discussion	Mark Morris & Sergei Nayakshin*

² see article by Faustin Munyaneza

Posters

Session I - Large Scale Structures in the GC: ISM and Magnetic Fields

NH ₃ observations of the Central Molecular Zone with Kagoshima 6 meter Radio Telescope	Toshihiro Handa*
An extremely large column density cloud G0.11-0.11 in the Galactic Center region	Toshihiro Handa*
Nonlinear Reddening Behavior in the Near-Infrared Color-Magnitude Diagram	Sungsoo Kim
HI absorption toward the central 250 pc of the Galactic Center	Cornelia Lang
The magnetic field configuration in the Galactic Center Snake	Cornelia Lang
3-D Simulations of the 180-pc Molecular Ring	Myoung Won Jeon*
ISAAC M-band spectroscopy of dust embedded sources at the Galactic Center	Jihane Moulata*
Structure of the Galactic Bulge: Is the Milky Way a Double-barred Galaxy?	Shogo Nishiyama*
ASTE Observations of the Galactic Center	Tomoharu Oka*
ODIN spectral line observations of the Sgr A Complex and Sgr B2 in the 118-119 GHz band and at sub-mm wavelengths	Aage Sandqvist*
1720 MHz OH masers in Sgr A East and the Circumnuclear Disk	Lorant Sjouwerma ³
CN in the Sgr A* Environment - First Results	Marija Stankovic*
Significance of bulge central density core/cusp on formations of nuclear spirals in barred galaxies	Parijat Thakur

Session II - Large Scale Structures in the GC/Surveys

Viscous Dissipation in the Galactic Center Region	Renaud Belmont*
Flamingos 2 Galactic Center Survey	Stephen Eikenberry
Confirmation of New Supernova Remnants near the Galactic Centre	Subhashis Roy*
Low frequency studies of the Galactic Centre with GMRT	Subhashis Roy*
Mm-wave recombination line emission towards the GC	Karl-Friedrich Schuster
Spitzer IRS Observations of the Galactic Center	Janet Simpson*
Circumstellar CO in OH/IR Stars Close to the Galactic Centre	Anders Winnberg*
Comparison of Spitzer/IRAC Galactic Center 3.6-8.0 μ m survey results with X-ray emission in the central 40×40 parsecs	Dan Gezari*

Session III - Star Formation in the Center of the Milky Way

Orbital decay of evolving young star clusters in galactic nuclei	Andreas Ernst
Estimation of the Low-End Mass Function of the Arches Cluster	Shin Jihye*
High Spectral Resolution Observations of the Massive Stars in the Galactic Center	Angelle Tanner
Galactic structure and stellar clusters in obscured HII Regions	Maria Messineo*

Session IV - The Nuclear Stellar Cluster of the Milky Way

Ejection of Hyper-Velocity Stars by Intermediate-Mass Black Holes	Holger Baumgardt*
X-ray constraints on the number of stellar mass black holes in the inner parsec	Patrick Deegan*
Thin filaments at the Galactic Center: identification and proper motions	Koraljka Mužić*
Accurate Measurements of Proper Motions of Maser Objects around the Galactic Center	Tomoaki Oyama
Photometric Stellar Variability in the Galactic Center	Marc Rafelski*

Session V - The Nuclei of Nearby Galaxies

The millimeter variability of M81*	Rainer Schödel*
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³ see article by Ylva Pihlström

Session VII - Observations of Sagittarius A*

The infrared emission of the dust clouds close to Sgr A*

Yann Clénet*

Session VIII - Sagittarius A*: Observations and Theory

A two component hot spot/ring model for the NIR flares of Sagittarius A*

Leo Meyer*

Session IX - Sagittarius A*: Observations and Theory

Growth of black holes and dark matter accretion

Faustin Munyaneza*