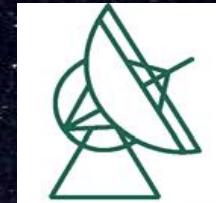


The Galactic Center : Past and Future - 2

Cologne-Prague-Brno meeting 2022
Black-hole activity feedback from Bondi-radius
to galaxy-cluster scales
2022 June 1-3, Brno, Czech Republic,

Andreas Eckart

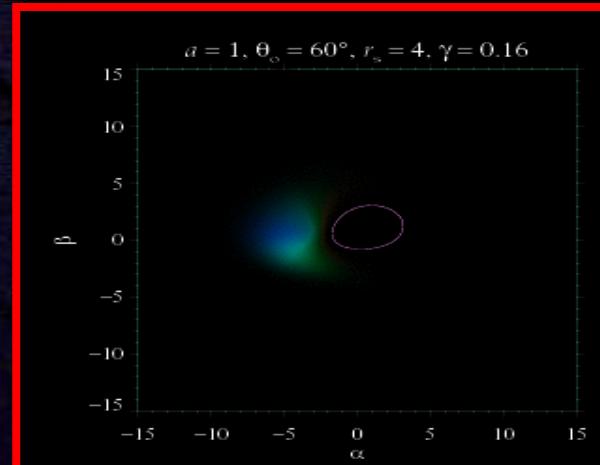
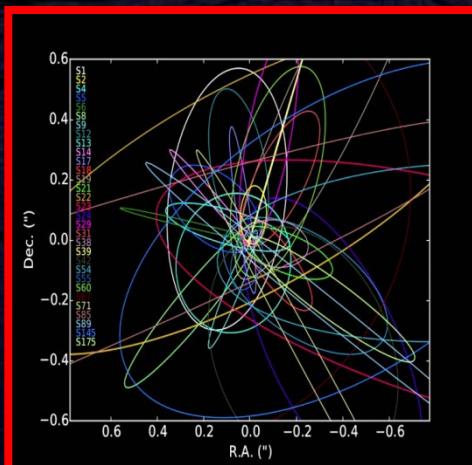
*I.Physikalisches Institut der Universität zu Köln
Max-Planck-Institut für Radioastronomie, Bonn*



Max-Planck-Institut
für Radioastronomie

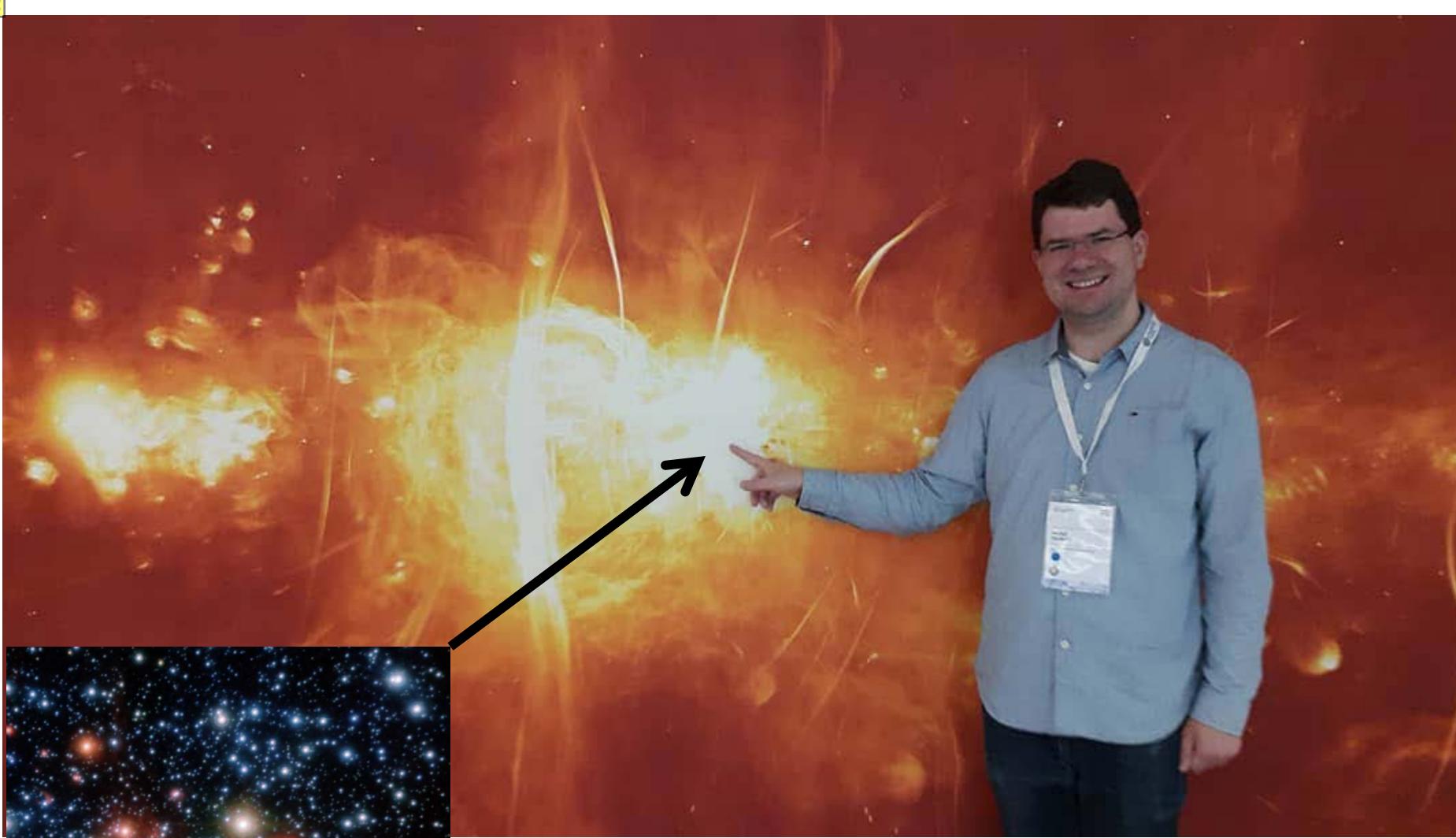


I. Physikalisches Institut
Universität zu Köln





Scientific Challenges



The Galactic center and
nuclei of active galaxies

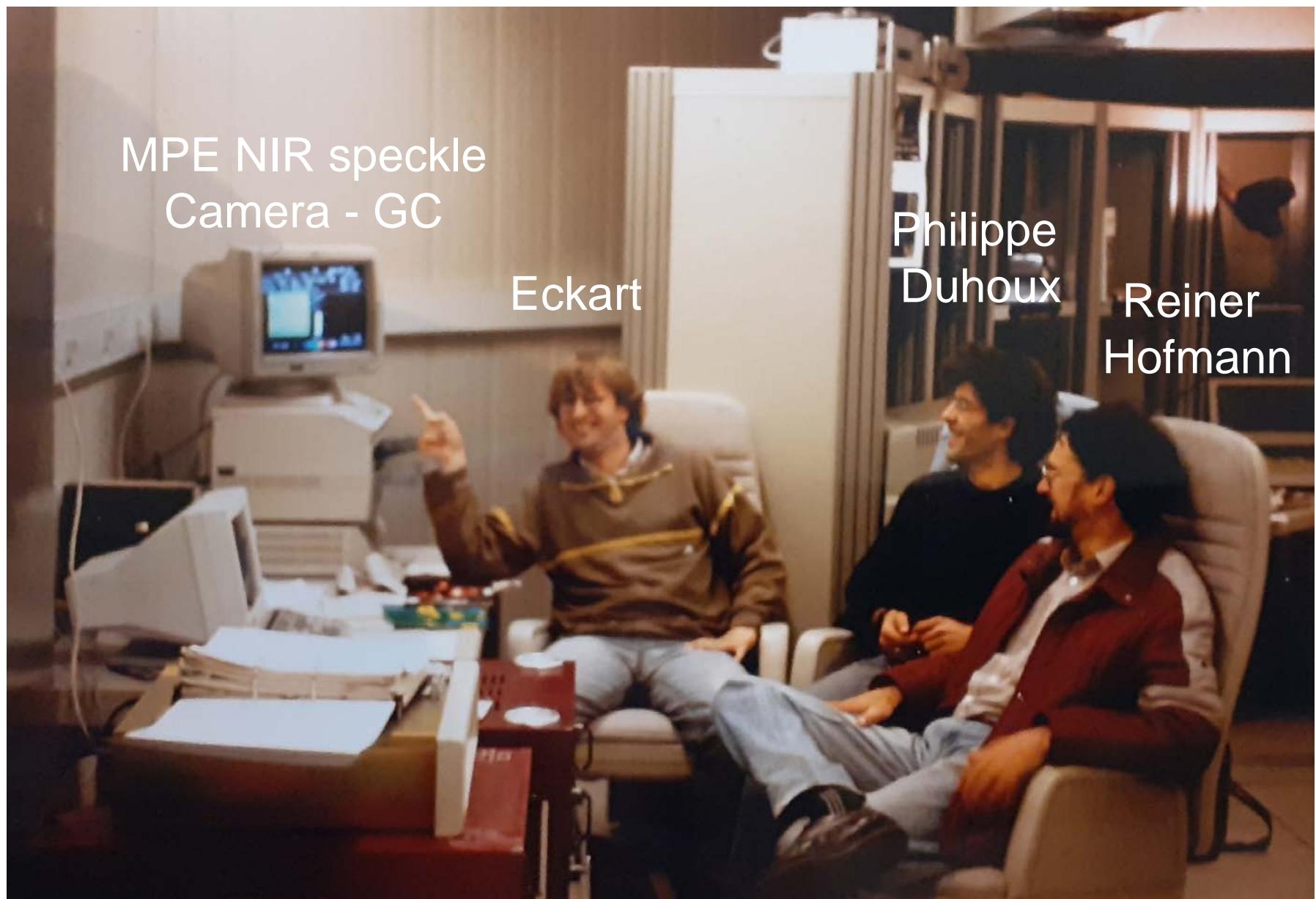
First GC Speckle Images at the NTT, La Silla, Chile, 1981

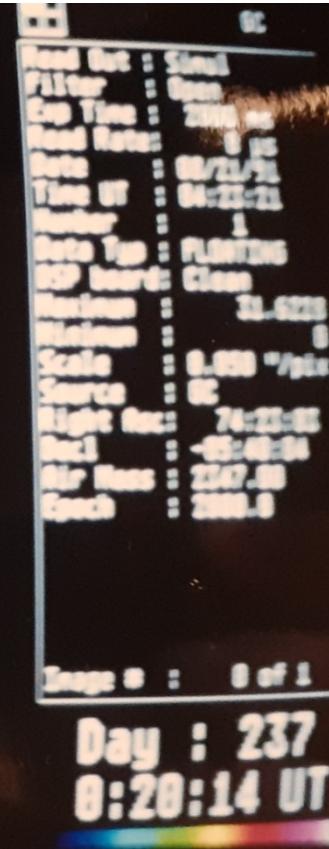
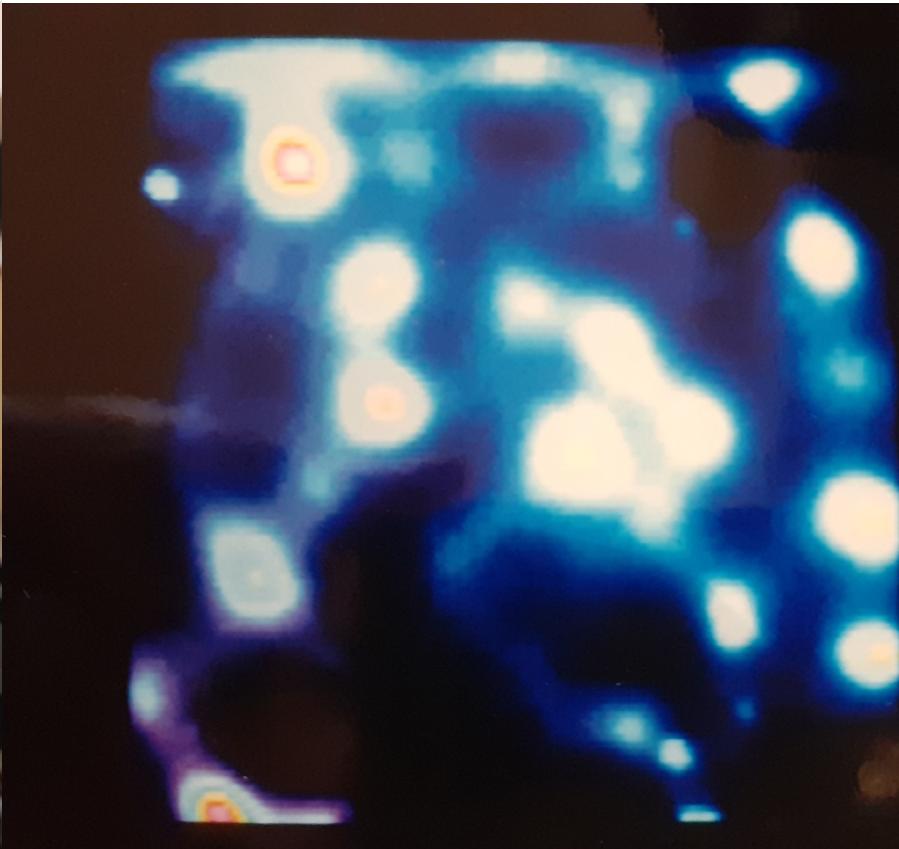
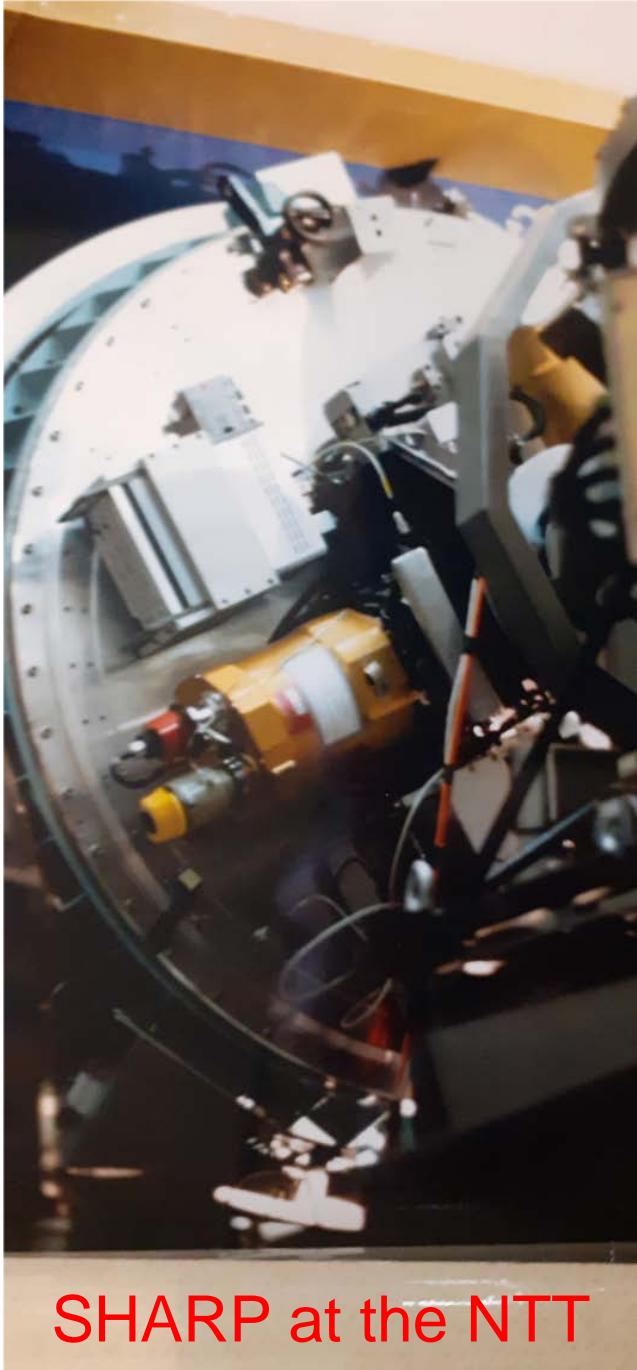
MPE NIR speckle
Camera - GC

Eckart

Philippe
Duhoux

Reiner
Hofmann





Online shift and add
image of the central
stellar cluster

La Silla, Chile, 1981

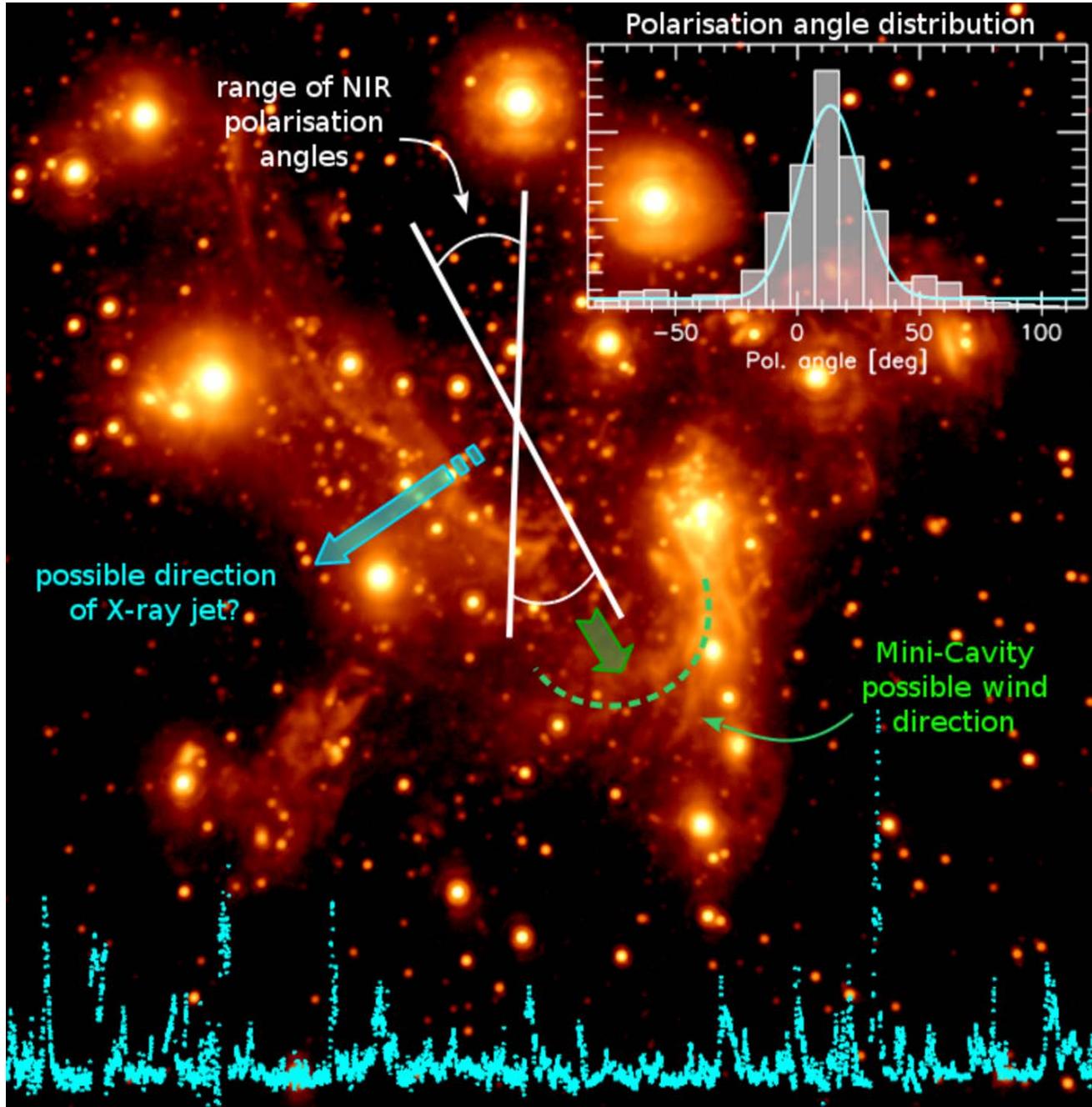
SHARP at the NTT



ESO Announcement 17051, 9. August 2017

Parsa, M.; Eckart, A.; Shahzamanian, B.; Karas, V.; Zajaček, M.; Zensus, J.
A.; Straubmeier, C., 2017, ApJ 845, 22

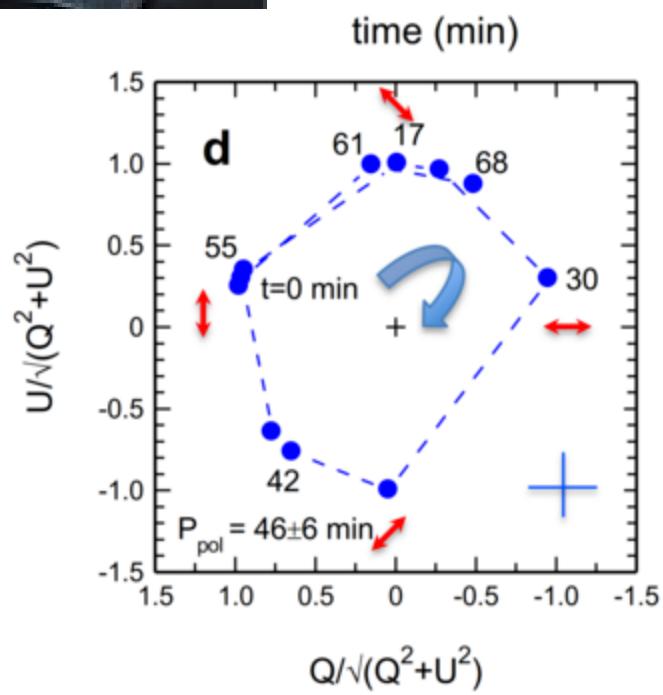
Investigating the Relativistic Motion of the Stars Near the Supermassive
Black Hole in the Galactic Center

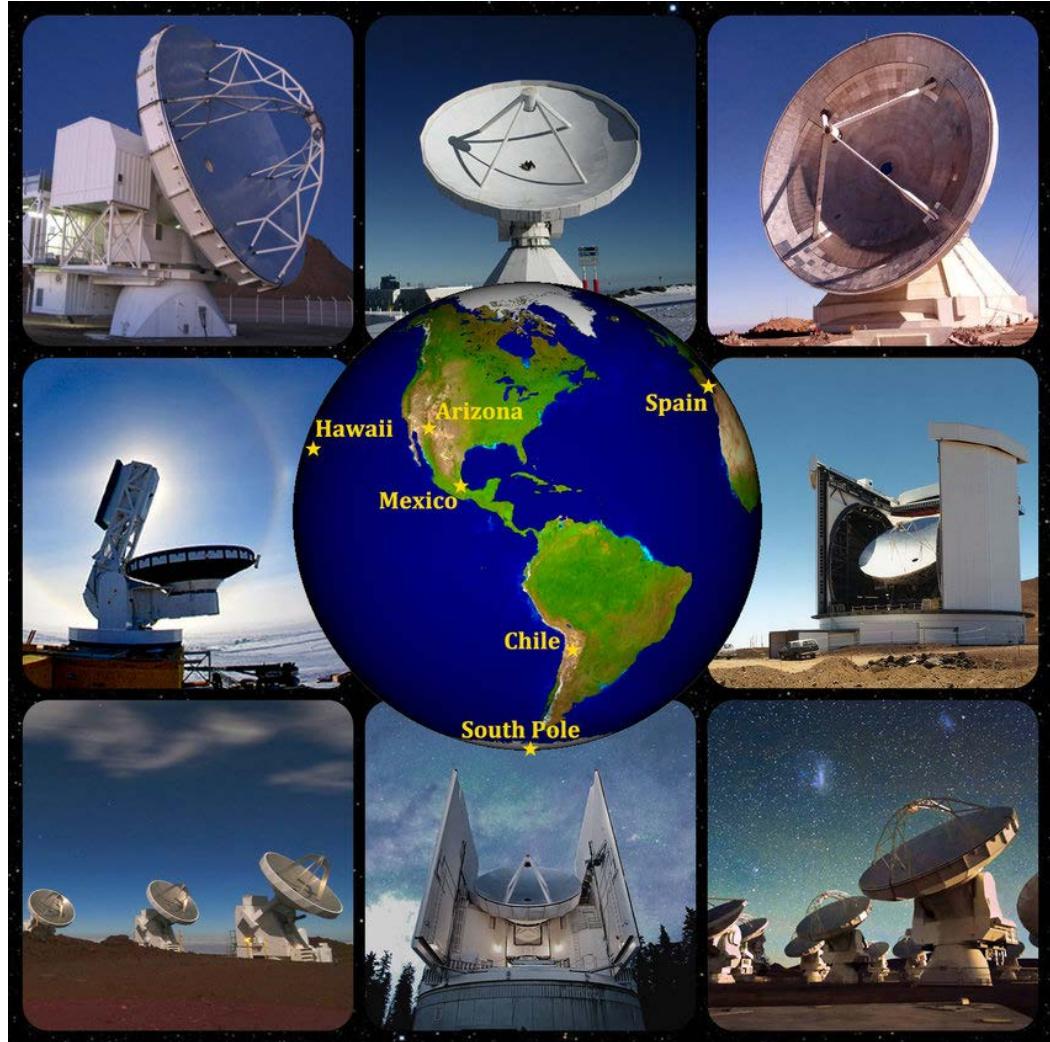


Several papers including Meyer, Schödel, Eckart, Witzel, Zajazek, Karas, Dovciak Bursa, Shahzamanian and many others



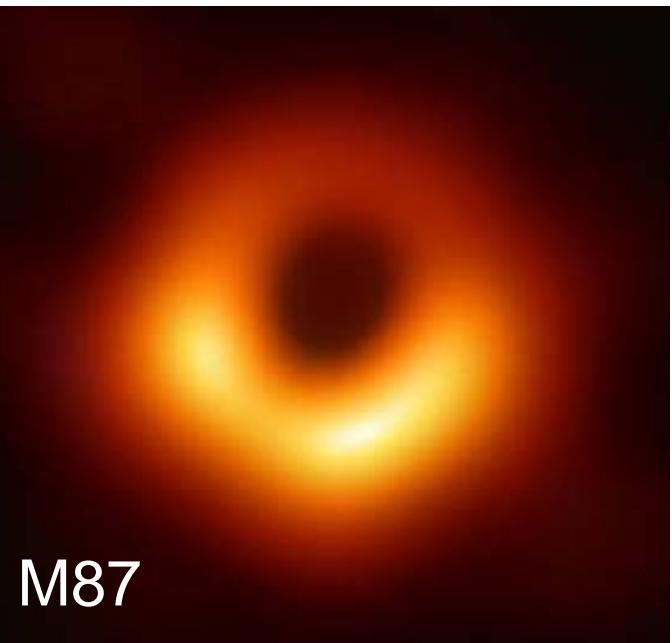
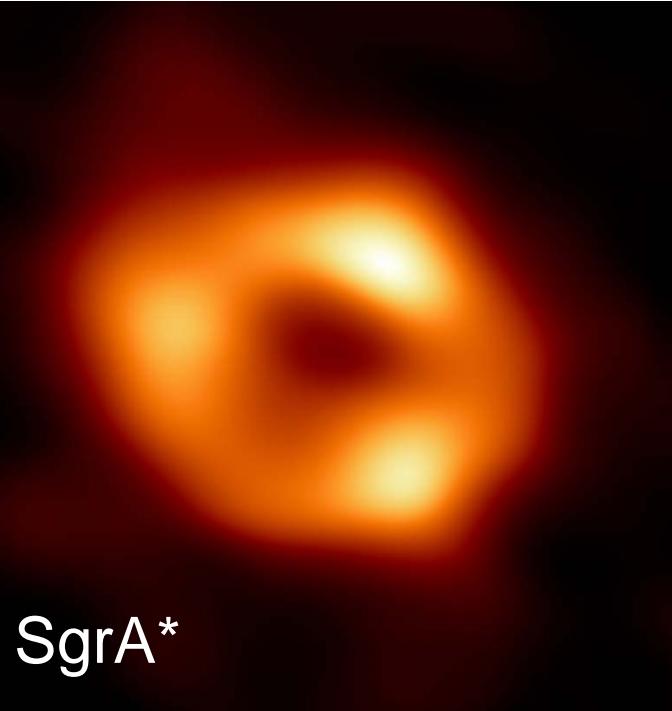
Cologne-Prague-Kiel meeting
2016 (CPK16):
Star formation, accretion, and
feedback in galactic nuclei

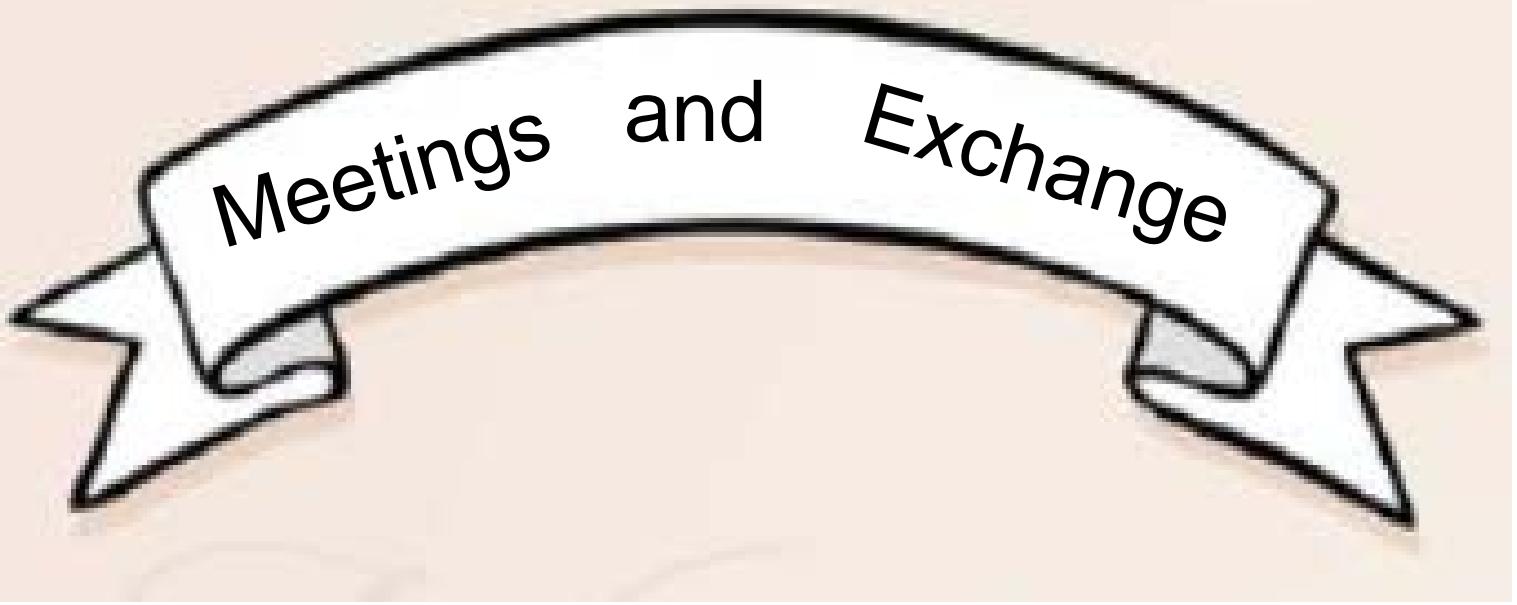




Event Horizon Telescope 2019/22

Breakthrough Prize in Fundamental Physics awarded to the Event Horizon Telescope Collaboration





Meetings and Exchange



Prague 2015

A photograph of a man with glasses and a plaid shirt cutting a round cake decorated with white frosting and small red and yellow pieces. He is standing at a wooden table. In the background, there are tall wooden bookshelves filled with books. On the table, there is also an orange thermos, a red teapot, and some cups.

Prague 2015

Astronomical Institute
of the Czech Academy
of Sciences

Celebrating
100 years of
general relativity

The honor of
cutting the cake



Prague 2015



Schloss Wahn, Köln Porz 2016

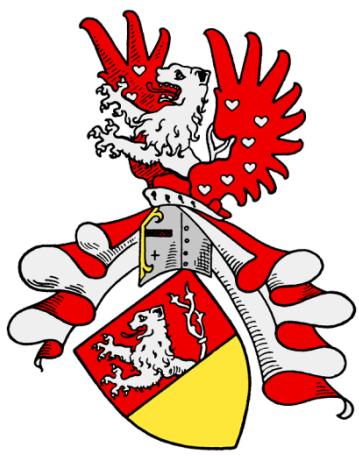


Wahn 2017



Wahn 2019

Schloss Wahn, University of Cologne





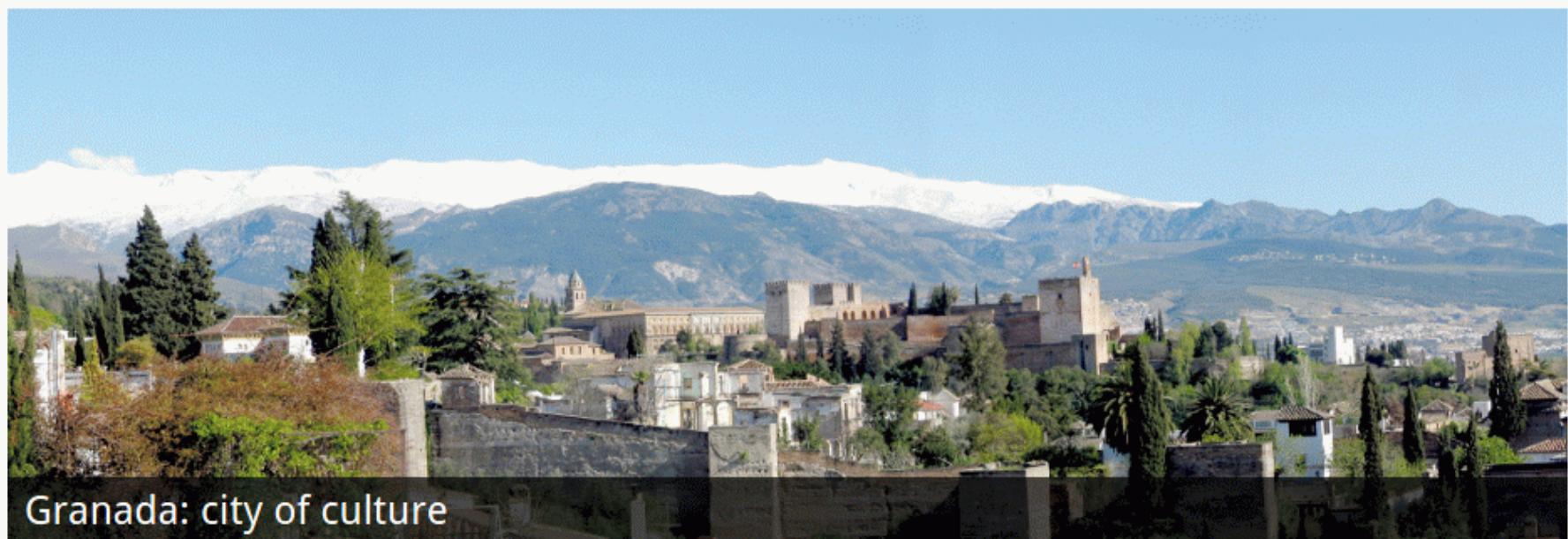
Wahn 2019



Wahn 2019

The Galactic Center Black Hole Laboratory

November certainly closes the 2013 observing session during which the compact dusty S-cluster object (DSO - often also called gas cloud G2) will probably have passed massive Black Hole associated with Sagittarius A* (SgrA*) at the center of the Milky Way. This event has spawned great activities in observing the Galactic Center covering the entire electromagnetic spectrum from radio, via infrared to X-ray wavelengths using telescopes across the world. Hence, in Granada we look forward to conclude the presumably fruitful research session on SgrA*. ([more](#))



Granada: city of culture

Granada, Spain 2013

Common conferences and research across Europe

Exploring the Universe

Large Scale Star Formation and Supermassive Black Holes

Cologne / Prague Based Online Conference 21.–22. September 2020

Scientific and Operational
Organizing Committee

Andreas Eckart, Cologne

Vladimir Karas, Prague

Shayoni Panja, Persis Misquitta,
Lauritz Thomkins, Elaheh Hosseini,
Florian Peissker, Madeleine Yttergren,
Basel Ali, Matthias Subroweit, Cologne

Guests

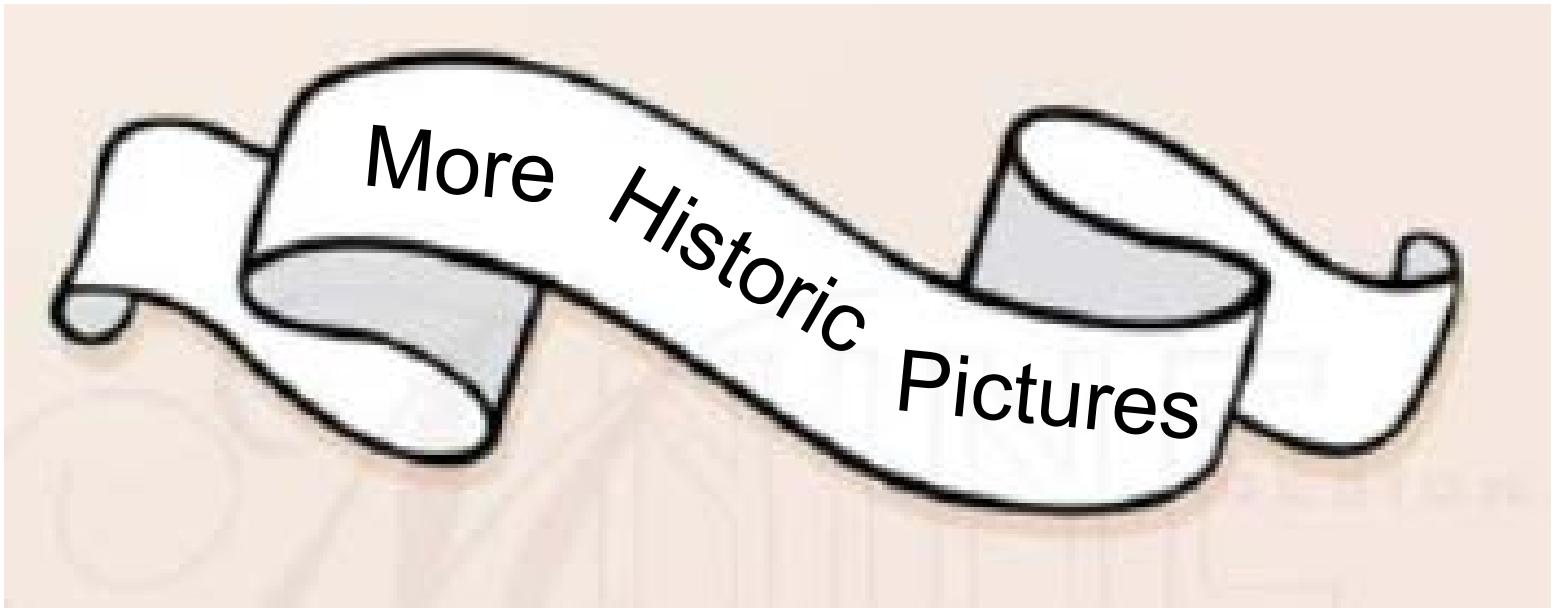
Hope Boyce, Montreal/ Silke Britzen, Bonn/
Michal Bursa, Prague/ Francoise Combes, Paris/
Bozena Czerny, Warsaw/ Antonios Manousakis, Sharjah/
Jihane Moultaka, Toulouse/ Yasir Ezzuldeen Rashed, Baghdad/
Nadeen Sabha, Innsbruck/ Rainer Schoedel, Granada/ Kris Schroven, Prague/
Petra Sukova, Prague/ Banafsheh Shahzamanian, Granada/ Anas Salman Taha, Baghdad/
Arman Tursunov, Opava/ Maciek Wielgus, Boston/ Gunther Witzel, Bonn/ Michal Zajacek, Warsaw

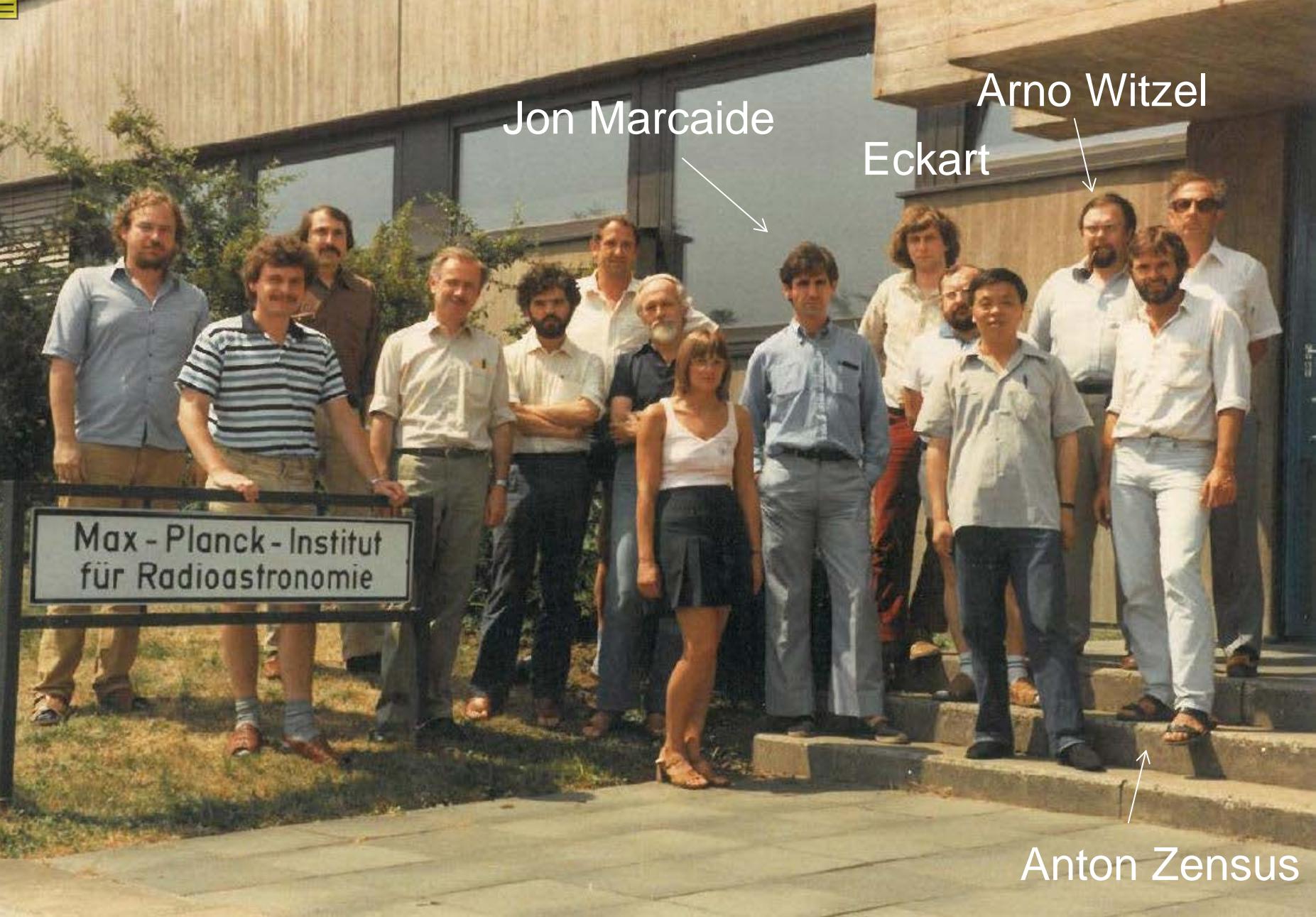
Conducted within the CRC 956, 'Conditions and Impact
of Star Formation' [A02], funded by the Deutsche
Forschungsgemeinschaft (DFG) project ID184018867
as well as the DFG program E137/10–1 and the
Czech Science Foundation, grant No. 19–01137J.

Exploring the unforeseen
and unpredicted

CR Lukas Eckart

Online Conference, 2020 during the pandemic





Bonn, MPIfR, VLBI group ~1982



Bonn, MPIfR ~1982



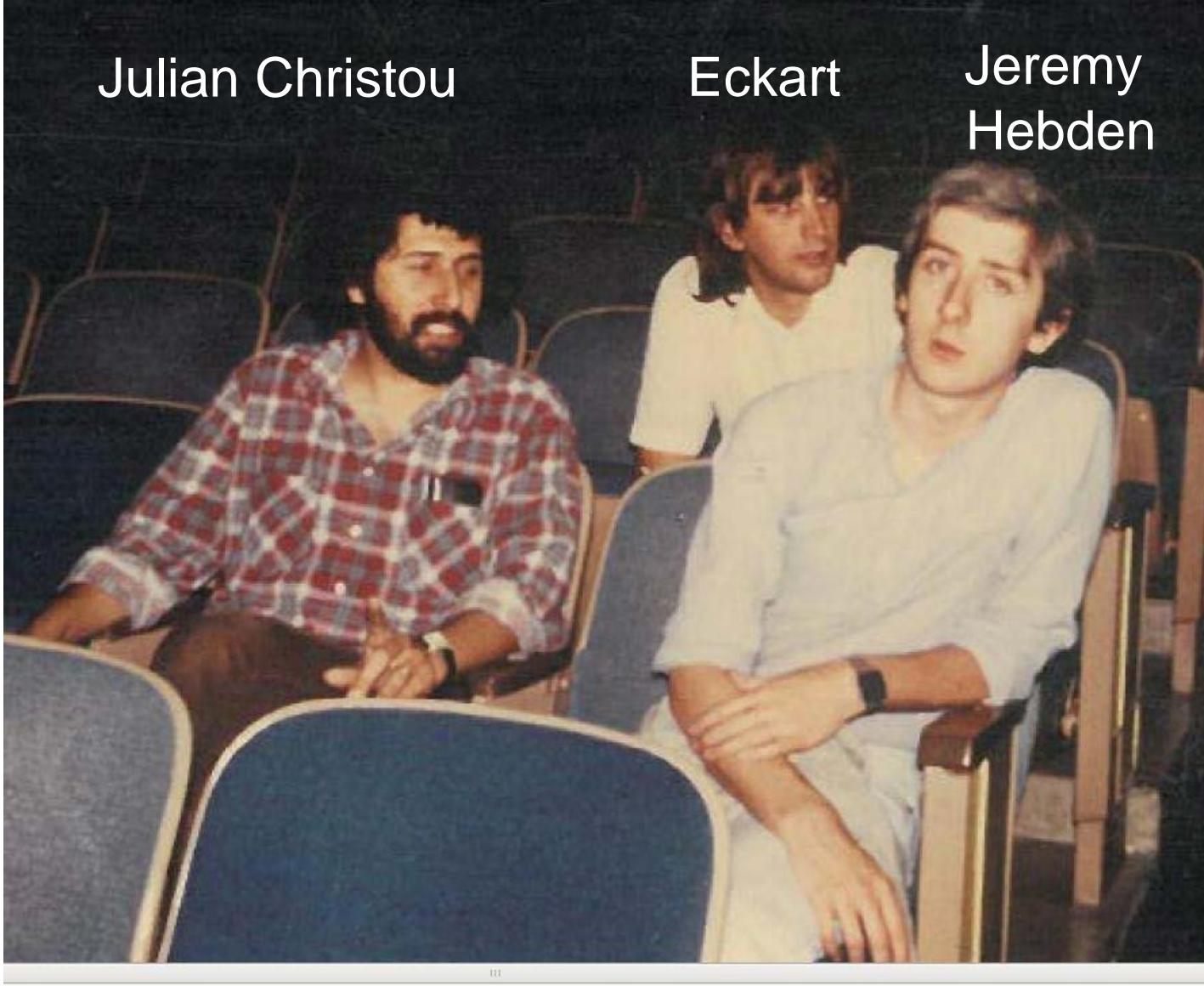
Bonn, MPIfR ~1982
Realizing that I am lost



Julian Christou

Eckart

Jeremy
Hebden

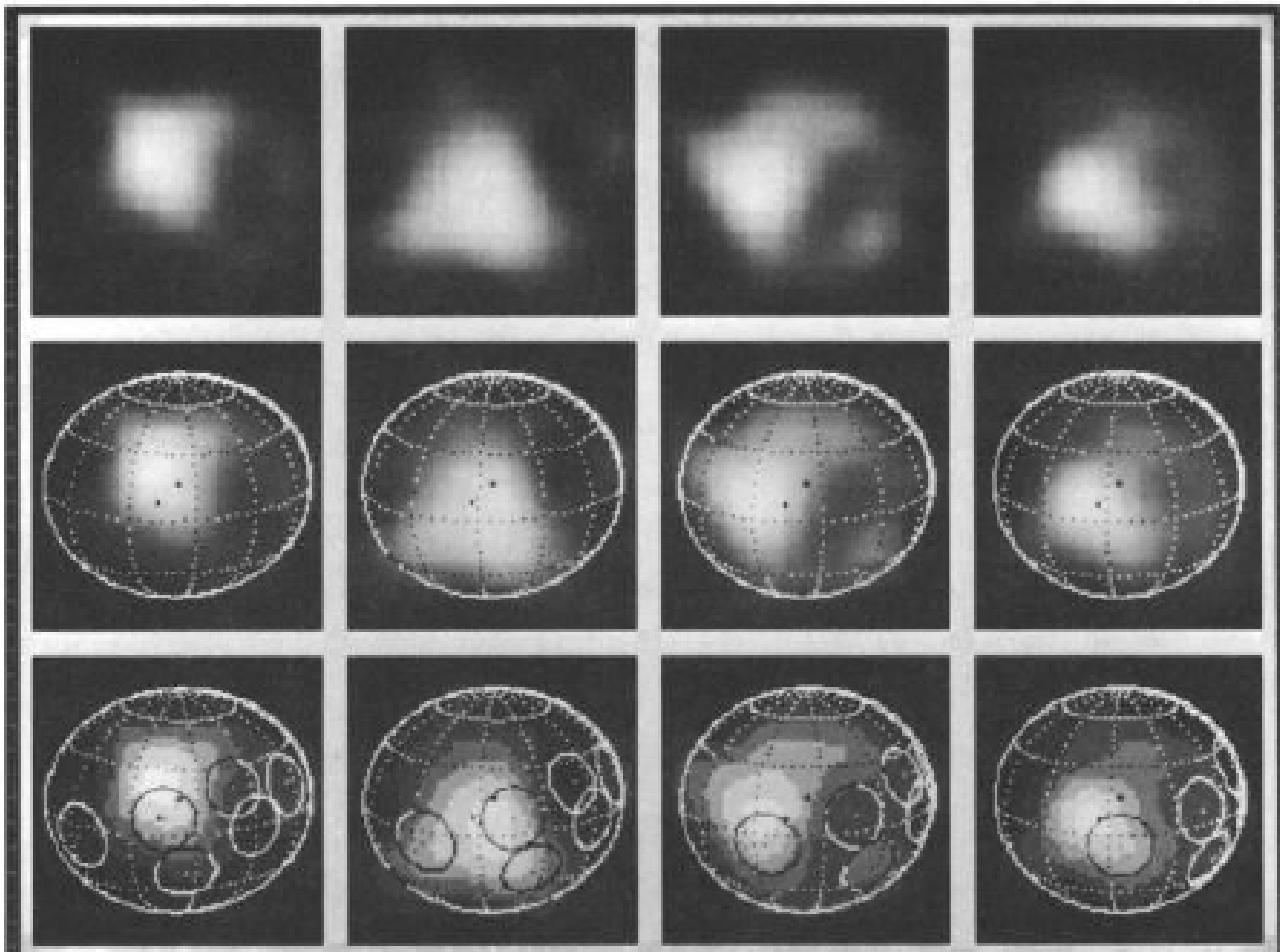


III

Speckle Interferometry Group at Steward Observatory

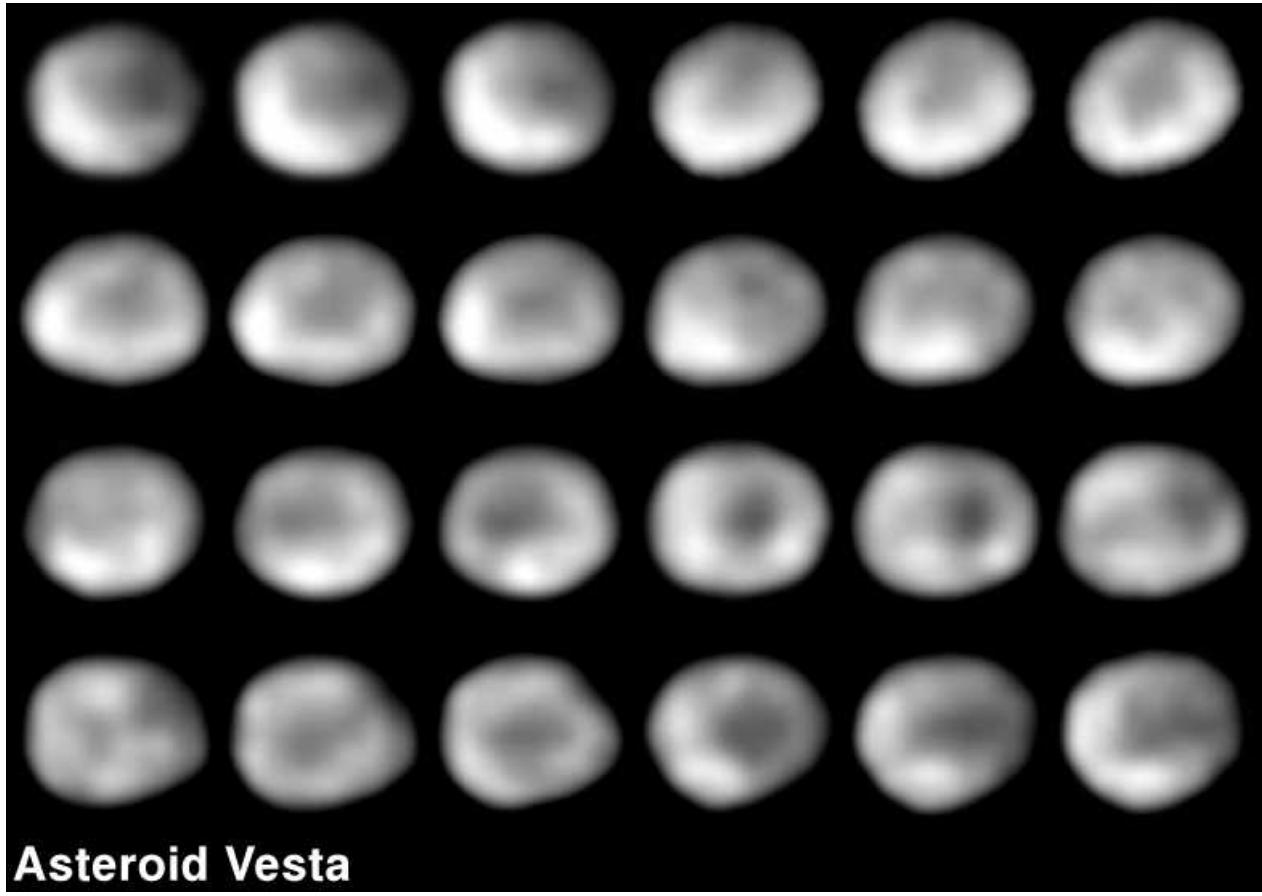
Tucson, Arizona ~1985

The Images and a Model

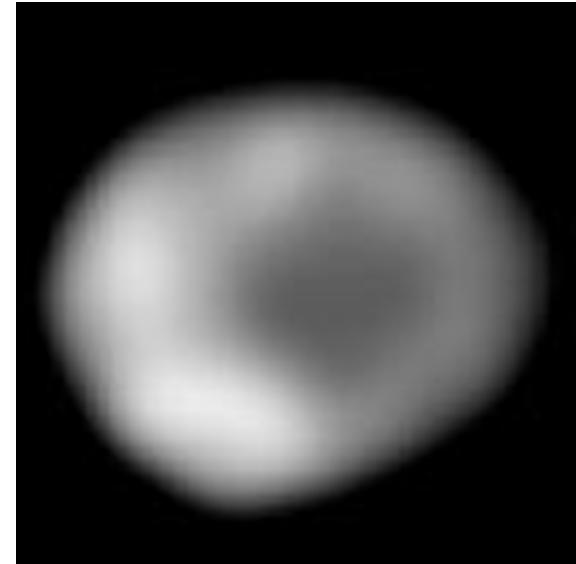


Drummond, J.; Eckart, A.; Hege, E. K.
1988, Icarus 73, 1

Speckle interferometry of asteroids IV. Reconstructed images of
4 Vesta



Asteroid Vesta



Olbers Regio
(dark area)

1994 Hubble Images of Vesta



The Blind Leading the Blind - Pieter Bruegel the Elder
dated 1568

THE END