

November 16, 2010 2nd COST MC Meeting Eduardo Ros (Univ. Valencia)

SMBH WG4 REPORT



E. Ros - COST MP0905 WG#4 SMBH

Review

- Group formed at the 1st Meeting on June 25, further on November 15
- Largest number of participants (over 25 both times)
- Several STSM

- Gergely (HU) to MPI for Radio Astronomy, DE
- Boeck (DE) to Univ. Valencia, ES
- Fromm (DE) to Univ. Valencia, ES
- Meliani (BE) to Univ. Valencia, ES
- Karouzos (DE) to Hertfordshire, UK





June 25th Meeting

- 20'+20' of discussion
- FRI/II by simulated relativistic flows (Keppens 20')
- X-ray and γ-ray emission in AGN (Niedzwiecki 15')
- X-ray and γ-ray observations (Kadler 15')
- AGN studied by spectral lines (Popovic 15')

- GAIA and QSOs (Antón 15')
- SMBH vicinity with radio interferometry (Lobanov 20')
- BH catalog of the nearby universe (Caramete 15')
- BBH theory (Gergely 15')
- Modeling BBH with VLBI jet trajectories (Roland 15')





November 15th Meeting

- BH mass estimates and BH demographics (Vestergaard, 15')
- The INTEGRAL Sky (Panessa, 15')
- Jet simulations (Meliani, 15')
- Dynamical inferences on SMBH from BLR spectra (La Mura, 15')

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 AGN Samples, gamma & radio (Mantovani, 15')

- Star formation vs accretion in AGN (Pérez-Torres, 15')
- WG1+WG4 SMBH & pulsar timing (Verbiest, 25'+20')
- Radio-Gamma Connection, F-GAMMA (Angelakis/ Fuhrmann 25')
- Discussion on magnetic fields (Alberdi, 15')
- Final Discussion





Discussion on "goals" or "deliverables"

- (Text) book on SMBH
- Basis for deeper networking (e.g., further applications to FP7/FP8 programs)
- Organising a (training) school
 - BH powered astrophysics
- Sci. workshops
 - Multi-band view on AGN (away from colour blindness), and beyond photons

- Input for the Outreach working group (e.g., news website)
- Synergy with parallel efforts (e.g., GAIA QSO WG)
- Development of joint efforts with industry (developments, techniques; e.g., GRAVITY)
- Public talks (attached to WG meetings)





Synergy topics

WG1

 Formation of BH in the early universe and high-z QSOs

• WG2

- Jet formation and evolution
- Role of magnetic fields
- Pulsar timing and BBH coalescence
- Multi-band approach

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• WG3

- The GC nature and the link between stellar, intermediate, SgrA*-like, and SMBH
- Multi-band approach



