Allegato alla domanda di partecipazione
Curriculum formativo, didattico, scientifico e professionale del candidato

Dichiarazione sostitutiva di certificazioni
(Art. 46, D.P.R. 28 dicembre 2000 n. 445)
Dichiarazione sostitutiva dell'atto di notorietà
(da sottoscrivere davanti all'impiegato addetto o da presentare o spedire con la fotocopia di un documento di identità)
(Art. 47, D.P.R. 28 dicembre 2000 n. 445)

Estremi del bando di selezione	AR COD.112A_23 RS_Goddi
Informazioni aggiornate al	11/03/2024
Nome e Cognome	Alejandro Mus Mejías
Data di nascita	16/09/1993

Si raccomanda di indicare con precisione tutti gli elementi valutabili ai sensi del bando di selezione (aggiungere o togliere righe secondo necessità).

Esperienza professionale

Periodo	Ente	Principali attività e responsabilità
2018-2019	**Sopra Steria**	**Computer programming**
2019-2023	**Universitat de València**	**Ph.D Student on Radio astronomy**
10/2023-01/2024	**Universitat de València**	**Postdoctoral researcher**

Istruzione, formazione (es. titoli di studio, certificazioni professionali/linguistiche/informatiche)

Data	Titolo / Principali tematiche	Ente
2012-2017	**Bachelor in Mathematics**	**Universitat de les Illes Balears**
2017-2018	**Master II in Optimization**	**Université de Paris-Saclay**

Pubblicazioni / Convegni

Mus et al. 2022.A first search of transients in the Galactic center from 230 GHz ALMA observations, A&A
Müller, Mus, Lobanov, 2023. Using multiobjective optimization to reconstruct interferometric data (I), A&A
ALMA full polarization observations of PKS 1830−211 during its record-breaking flare of 2019, I. Marti-Vidal, S. Muller, A. Mus, A. Marscher, I. Agudo, and J. L. Gomez, A&A 638, L13 (2020)
Polarization calibration techniques for the new-generation VLBI, I. Martí-Vidal, A. Mus, M. Janssen, P. de Vicente and J. González, A&A 646, A52 (2021)
A Collection of German Science Interests in the Next Generation Very Large Array, M. Kadler et al., 2023, Chapter 2.27
First M87 Event Horizon Telescope Results. VII. Polarization of the Ring, EHTC, 2021, The Astrophysical Journal Letters, 910:L12

Millimeter Light Curves of Sagittarius A Observed during the 2017 Event Horizon Telescope Campaign, 2022, The Astrophysical Journal Letters, 930:L19
First Sagittarius A Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way, EHTC, 2022, The Astrophysical Journal Letters, 930:L12
First Sagittarius A Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole, EHTC, 2022, The Astrophysical Journal Letters, 930:L14
First Sagittarius A Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass, EHTC, 2022, The Astrophysical Journal Letters, 930:L15
First Sagittarius A Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration, EHTC, 2022, The Astrophysical Journal Letters, 930:L13
Stationary models of magnetized viscous tori around a Schwarzschild black hole, Lahiri, S, Gimeno-Soler, S, Font, J.~A., and Mus, A, 2021, Phys. Rev. D 103, 044034
First Sagittarius A Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole, EHTC, 2022, The Astrophysical Journal Letters, 930:L16
First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon, EHTC, The Astrophysical Journal Letters, 910:L13 (43pp), 2021
The Event Horizon Telescope Image of the Quasar NRAO 530, Jorstad et al., The Astrophysical Journal, 943:170 (19pp), 2023
A Search for Pulsars around Sgr A* in the First Event Horizon Telescope, Torne et al, 2023, The Astrophysical Journal, 959:14
Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign, Algaba et al., 2021, The Astrophysical Journal Letters, 911:L11
Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI, Broderick et al., 2022, The Astrophysical Journal Letters, 930:L21
Polarimetric Properties of Event Horizon Telescope Targets from ALMA, Goddi et al., 2021, The Astrophysical Journal Letters, 910:L14
Resolving the Inner Parsec of the Blazar J1924–2914 with the Event Horizon Telescope, Issaoun et al., 2022, The Astrophysical Journal, 934:145
Constraints on black-hole charges with the 2017 EHT observations of M87*, Kocherlakota et al., 2021, Physical Review D. 103

A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows, Georgeiv et al., 2022, The Astrophysical Journal Letters, 930:L20
Selective Dynamical Imaging of Interferometric Data, Farah et al, 2021, The Astrophysical Journal Letters, 930:L18
The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole, Narayan et al., 2021, The Astrophysical Journal, 912:35
First Sagittarius A Event Horizon Telescope Results. VI. Testing the Black Hole Metric, EHTC, 2022, The Astrophysical Journal Letters, 2022
The Variability of the Black Hole Image in M87 at the Dynamical Timescale, Satapathy et al., 2022, The Astrophysical Journal, 925:13
Event Horizon Telescope observations of the jet launching and collimation in Centaurus A, Janssen et al. 2021, Nature Astronomy vol 5

Altre attività scientifiche

CASA Workshop 2020
MOEAD y ngMEM: de 'static imaging' a 'dynamic imaging' en la nueva generación de radio telescopios; Speaker, Madrid, 15/05/2023
A first search of transients in the Galactic Center from 230 GHz ALMA observations; Special Colloquim, Bonn, Gemrany, 24/01/2023
Polsolve tutorial; Spekaer, EHTC meeting, Granada, Spain, 2022
A first search of transients in the Galactic center from 230 GHz ALMA observations; Spekaer, EHTC meeting, Granada, Spain, 2022
Using multiobjective optimization for reconstructing interferometric data; EHTC meeting, Taichung, Taiwan, 2023

Ulteriori informazioni pertinenti

The sharpest view of AGN jets and their central black holes; PROYECTOS DE GENERACIÓN DE CONOCIMIENTO 2022, MINISTERIO DE CIENCIA E INNOVACIÓN

Luogo, data e firma