

Ricardo Chávez

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Born: December 25th, 1985

Nationality: Mexican



Current Position

Postdoctoral Researcher, University of Cambridge, Cavendish Laboratory, UK

Research Interests

Cosmology, Dark Energy, Star formation, Galaxy formation and evolution.

Education

2010 - 2014 PhD in Astrophysics, INAOE, México (October 13th, 2014)
2008 - 2010 MSc in Astrophysics, INAOE, México (July 9th, 2010)

Languages

Spanish	Native proficiency
English	Professional proficiency (TOEFL ITP: 630 pts)
French	Limited working proficiency

Publications

JOURNAL ARTICLES

- 2015 Terlevich R., Terlevich E., Melnick J., Chávez R., Plionis M., Bresolin F. & Basilakos S. (2015), On the road to precision cosmology with high-redshift H II galaxies, *MNRAS*, 451, 3001
- 2014 Chávez R., Terlevich R., Terlevich E., Bresolin F., Melnick J., Plionis M. & Basilakos S. (2014), The $L - \sigma$ relation for massive bursts of star formation, *MNRAS*, 442, 3565 [6 citations*]
- 2013 Koulouridis E., Plionis M., Chávez R., Terlevich E., Terlevich R., Bresolin F. & Basilakos S. (2013), The Environment of H II Galaxies revisited, *A&A*, 554, 13 [6 citations]
- 2012 Chávez R., Terlevich E., Terlevich R., Plionis M., Bresolin F., Basilakos S. & Melnick J. (2012), Determining the Hubble constant using giant extragalactic H II regions and H II galaxies, *MNRAS*, 425L, 56 [18 citations]
- 2011 Plionis M., Terlevich R., Basilakos S., Bresolin F., Terlevich E., Melnick J. & Chávez, R. (2011), A strategy to measure the dark energy equation of state using the H II galaxy Hubble function and X-ray active galactic nuclei clustering: preliminary results, *MNRAS*, 416, 2981 [17 citations]

CONFERENCE PROCEEDINGS

- 2014a Chávez R., Terlevich E., Terlevich R., Plionis M., Melnick J., Bresolin F. & Basilakos S. (2014), The Hubble Constant via HII Galaxies and Giant HII Regions, in *Massive Young Star Clusters Near and Far: From the Milky Way to Reionization. 2013 Guillermo Haro Conference*, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. *INAOE & AMC*, 215
- 2014b Plionis M., Terlevich R., Basilakos S., Terlevich E., Chávez R., Bresolin F. & Melnick J. (2014), Tracing the High- z Hubble Expansion with H II Galaxies, in *Massive Young Star Clusters Near and Far: From the Milky Way to Reionization. 2013 Guillermo Haro Conference*, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. *INAOE & AMC*, 211
- 2014c Terlevich R., Chávez R., Terlevich E., Bresolin F., Melnick J., Plionis M. & Basilakos S. (2014), The $L - \sigma$ Relation for Massive Bursts of Star Formation and its Use for Precision Cosmology, in *Massive Young Star Clusters Near and Far: From the Milky Way to Reionization. 2013 Guillermo Haro Conference*, Eds. Y. D. Mayya, D. Rosa González and E. Terlevich. *INAOE & AMC*, 197
- 2011 Chávez R., Terlevich R., Terlevich E., Bresolin F., Melnick J., Plionis M. & Basilakos S. (2011), Constraining the Dark Energy Equation of State Using Alternative Cosmic Tracers, *RMxAC*, 40, 9
- 2010a Plionis M., Terlevich R., Basilakos S., Bresolin F., Terlevich E., Melnick J. & Chávez R. (2010), Constraining the Dark Energy Equation of State using Alternative High- z Cosmic Tracers, *AIPC*, 1241, 267 [10 citations]

2010b Plionis M., Terlevich R., Basilakos S., Bresolin F., Terlevich E., Melnick J. & Chávez R. (2010), The Dark Energy Equation of State Using Alternative Cosmic High- z Tracers, *JPhCS*, 222, 2025 [1 citation]

Conferences and Workshops

2013/12 5th Guillermo Haro Conference. Massive Young Star Clusters Near and Far: From the Milky Way to Re-ionization, Puebla, Mexico.
 2013/11 XXV Congreso Nacional de Astronomía (National Astronomy Conference), Mexico City, Mexico.
 2013/08 Segunda Reunión de Estudiantes de Astronomía (2nd Mexican Astronomy Students Meeting), Tonantzintla, Puebla, Mexico. Chairman of the LOC-SOC.
 2013/07 Guillermo Haro Workshop in Advanced Astrophysical Research. Galaxy structure and evolution through Integral Field Spectroscopy: the next generation surveys, Tonantzintla, Puebla, Mexico.
 2012/01 Cosmology on the Beach 2012, Essential Cosmology for the Next Generation, Cancun, Mexico.
 2011/08 COSMO11, International Conference on Particle Physics and Cosmology, Porto, Portugal.
 2010/11 XIII Latin American Regional IAU Meeting, Morelia, Mexico.
 2010/07 Guillermo Haro Workshop in Advanced Astrophysical Research. Compact super star-clusters, birth, evolution and feedback, Tonantzintla, Puebla, Mexico.
 2009/09 XXIII Congreso Nacional de Astronomía (National Astronomy Conference), Ensenada, Mexico.

Observational experience

- 2m class observatories: several observation runs from 2010 to 2013 at 2m class observatories in Mexico (OAGH-Cananea and OAN-SPM). The instruments used were the Long Slit Boller and Chivens spectrographs at both observatories and the echelle Mezcal and CanHiS spectrographs at OAN-SPM and OAGH-Cananea respectively. PI: Roberto Terlevich and Ricardo Chávez.
- Subaru: An observation run during November 2012 at Subaru-NAOJ using the echelle HDS spectrograph. PI: Fabio Bresolin.
- VLT: Participation in the preparation of observation proposals for VLT-ESO to use the Xshooter and KMOS spectrographs during 2013, 2014 and 2015. PIs: Jorge Melnick and Roberto Terlevich.
- LMT: Service observation runs at LMT as Support Astronomer. Several PIs.
- Data Reduction: C++, IRAF, IDL, CPL-Gasgano, Python.

Honors & awards

2012 Excellent graduate students prize, Puebla State Government.
 2011 MSc thesis Honourable mention, XXIV Congreso Nacional de Astronomía (National Astronomy Conference).

Other activities

2013 SOC chair at the 2nd Mexican Astronomy Students Meeting.
 2012 - 2013 President of the INAOE Students' Association.
 2012 - 2013 Organizer of the Star Formation and Star Clusters Journal Club at INAOE.
 2011 - 2013 Students Representative at INAOE's Astrophysics Department academic senate.

Programming languages

- IDL, Python, C, C++, Basic, Mathematica

* As reported by the ADS site to this date.
 Last updated: March 3, 2016