

Curriculum Vitae

Chao-Te Li

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Education

- Ph.D. 1993-1999, Physics, University of Virginia
Sub-millimeter-wave mixing using high T_c superconductor hot
electron bolometers
- B.S. 1986-1990, Electrophysics, National Chiao-Tung University

Experience

- 2015 – Senior Research Engineer
2007 – 2015 Associate Research Engineer
2005 – 2007 Assistant Research Engineer
2002 – 2005 Postdoctoral Fellow
Institute of Astronomy & Astrophysics, Academia Sinica
- 2000 – 2002 Senior Electronic Engineer
Kai-Link Corporation
- 1999 – 2000 Project Engineer
Hyton Technology Corporation

Fields of specialty

- Superconducting detectors and receivers
- Backend signal processing for radio telescopes

Ongoing activities

- wSMA diplexer design and testing
- YTLA commission – improve firmware design timing for wider bandwidths
- Microwave device development (mixer, parametric amplifier) for quantum computing
- Antenna and front end development for FRB array

Publications

Chao-Te Li et al

"Metal mesh IR filter for wSMA," SPIE Astronomical Telescopes + Instrumentation (2020)

The Event Horizon Telescope Collaboration

"First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole," 2019 ApJL 875 L1

The Event Horizon Telescope Collaboration

"First M87 Event Horizon Telescope Results. II. Array and Instrumentation," 2019 ApJL 875 L2

Chao-Te Li et al

"TIME millimeter wave grating spectrometer," SPIE Astronomical Telescopes + Instrumentation (2018)

Chih-Chiang Han et al

"The first-light receivers for the Greenland Telescope," SPIE Astronomical Telescopes + Instrumentation (2018)

Kai-Yang Lin et al

"AMiBA: Cluster Sunyaev–Zel’dovich Effect Observations with the Expanded 13-Element Array," ApJ, Vol. 830 (2016)

Chao-Te Li et al

"Digital sideband separating down-conversion for Yuan-Tseh Lee Array," SPIE Astronomical Telescopes + Instrumentation (2016)

Jonathon Hunacek et al

"Detector Modules and Spectrometers for the TIME-Pilot [CII] Intensity Mapping Experiment," SPIE Astronomical Telescopes + Instrumentation (2016)

Chao-Te Li et al

"Development of a millimeter wave grating spectrometer for TIME Pilot," The 27th International Symposium on Space Terahertz Technology (2016)

Kuan-Yu Liu et al

"The Performance of an Integrated Dual Polarization SIS Mixer at 350 GHz," The 26th International Symposium on Space Terahertz Technology (2015)

A. T. Grites et al

"The TIME-Pilot Intensity Mapping Experiment," Proceedings of SPIE Astronomical Telescopes and Instrumentation (2014)

Homin Jiang et al

"A 5 Giga samples per second 8-Bit Analog to Digital Printed Circuit Board for Radio Astronomy," PASP, vol. 126, no. 942, Aug., pp. 761-768, 2014

Kuan-Yu Liu et al

“Development of a Dual Polarization SIS Mixer with a Planar Orthomode Transducer at 350 GHz,” *IEEE Trans. Applied Superconductivity*, Vol. 23, Issue 3, 2013

Yun-Chih Chou et al

“Multi-Pixel Optics Design for the Submillimeter Array,” *Proceedings of the 24th International Symposium on Space Terahertz Technology* (2013)

Chao-Te Li et al

“Development of 460 GHz and Dual Polarization SIS Mixers for the Submillimeter Array,” *IEEE Trans. Applied Superconductivity*, Vol. 21, Issue 3, pp. 654-659, 2011

Chao-Te Li et al

“AMiBA Wideband Analog Correlator,” *ApJ*, Vol. 716, Issue 1, pp. 746-757 (2010)

Ming-Tang Chen et al

“AMiBA: Broadband Heterodyne Cosmic Microwave Background Interferometry,” *ApJ*, Vol. 694, Issue 2, pp. 1664-1669 (2009)

Kai-Yang Lin et al

“AMiBA: System Performance,” *ApJ*, Vol. 694, Issue 2, pp. 1629-1636 (2009)

Paul T. P. Ho et al

“The Yuan-Tseh Lee Array for Microwave Background Anisotropy,” *ApJ*, Vol. 694, Issue 2, pp. 1610-1618 (2009)

Chao-Te Li et al

“Development of SIS Mixers for SMA 400-520 GHz Band,” *Proceedings of the 20th International Symposium on Space Terahertz Technology* (2009)

Chao-Te Li et al

“Design of SIS Mixers for SMA 400 - 520 GHz Band,” *Proceedings of the Global Symposium on Millimeter Waves*, 2008

Chao-Te Li et al

“A wideband analog correlator system for AMiBA,” *Proceedings of SPIE Astronomical Telescopes and Instrumentation* (2004)

C.-T. Li et al

“Gain-Bandwidth and Noise Characteristics of Millimeter-wave $\text{YBa}_2\text{Cu}_3\text{O}_7$ Hot-electron Bolometer Mixers,” *Appl. Phys. Lett.* 73, 1727 (1998)

Mark Lee et al

“Nonlinear THz Mixing in YBaCuO Thin Film Hot Electron Bolometer,” *Proceedings of SPIE Superconducting and Related Oxides: Physics and Nanoengineering III* (1998)

Chao-Te Li et al

“Gain-bandwidth characteristics of high-T_c superconducting millimeter-wave hot-electron bolometer mixers,” Proceedings of the 9th International Symposium on Space Terahertz Technology (1998)

C. -T. Li et al

“Low power submillimeter-wave mixing and responsivity properties of YBa₂Cu₃O₇ hot-electron bolometers,” Appl. Phys. Lett. 71, 1560 (1997)