

Jinshi Sai (Insa Choi)

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Education

Apr. 2018–present	PhD, Department of Astronomy, Graduate School of Science, The University of Tokyo
Apr. 2016–Mar. 2018	MS, Department of Astronomy, Graduate School of Science, The University of Tokyo “Observational Study of the Class I Protostar L1489 IRS with ALMA”
Apr. 2012–Mar. 2016	BS, Department of Earth and Planetary Science, Faculty of Science, Kobe University “Experimental Study on Water Evaporation from Surfaces of Porous Objects due to an Astronomical Impact”

Employment & Salary History

Dec. 2019–present	Visiting PhD Student, ASIAA
Dec. 2018–Dec. 2019	Subaru Sr. Research Intern, Research Corporation of the University of Hawaii
Jun. 2018–Nov. 2018	Research Assistant, The University of Tokyo

Research and Technical Experiences

Topics:	Star and planet formation, disk formation, millimeter astronomy
Observing Experience:	IRAM 30m Telescope (on-site)
Data Reduction and Imaging:	Atacama Large Millimeter/submillimeter Array (ALMA), Atacama Compact Array (ACA), Submillimeter Array (SMA), IRAM 30m Telescope

Skills

Programming Languages:	Python, Fortran, IDL
Astronomical Software:	CASA, MIRIAD, GILDAS, RADMC-3D
Languages:	English, Japanese

Presentations in International Conferences

Oral

Jinshi Sai, N. Ohashi, K. Saigo, T. Matsumoto, Y. Aso, S. Takakuwa, Y. Aikawa, I. Kurose, H.-W. Yen, K. Tomisaka, K. Tomida, and M.N. Machida

“Warped Disk Structure around the Class I Protostar L1489 IRS Revealed by ALMA”,

ALMA Workshop 2019: Early Planet Formation in Embedded Disks, the University of Tokyo, Tokyo, Japan, Dec., 2019

<https://ohashi211.wixsite.com/almaws2019>

Jinshi Sai, N. Ohashi, A. Maury, S. Maret, K. Saigo, and M. Gaudel

“Transition from a Quiescent Core to a Dynamical Envelope around the Protostar L1489 IRS”,

2019 JCMT Users Meeting, ASIAA, Taipei, Taiwan, Nov., 2019

<https://www.eaobservatory.org/jcmt/science/um-asiaa-2019/>

Jinshi Sai, N. Ohashi, K. Saigo, T. Matsumoto, Y. Aso, S. Takakuwa, Y. Aikawa, I. Kurose, H.-W. Yen, K. Tomisaka, K. Tomida, and M.N. Machida

“ALMA Observations of the Late-Phase Protostar L1489 IRS: Warped or Misaligned Disk Structure”,

Subaru 20th Anniversary, Waikoloa Beach Marriott Resort & Spa, the Big Island of Hawaii, USA, Nov., 2019

<https://subarutelescope.org/subaru20anniv/index.html>

Jinshi Sai, N. Ohashi, K. Saigo, T. Matsumoto, Y. Aso, S. Takakuwa, Y. Aikawa, I. Kurose, H.-W. Yen, K. Tomisaka, K. Tomida, and M.N. Machida

“ALMA Cycle 2 Observations of the Class I Protostar L1489 IRS: Misaligned Disk Structure”,

East-Asia ALMA Science Workshop 2017, KASI, Daejeon, Korea, Nov., 2017

<http://alma.kasi.re.kr/almakasi2017/>

Poster

Jinshi Sai, N. Ohashi, A. Maury, S. Maret, H.-W. Yen, Y. Aso, and M. Gaudel,

“A Kinematical Transition from an Infalling Envelope to a Core around the Protostar L1489 IRS”

RAS Early Career Poster Exhibition 2020, online, Sep., 2020

<https://ras.ac.uk/ras-2020-posters>

Jinshi Sai, N. Ohashi, A. Maury, S. Maret, K. Saigo, and M. Gaudel,
“Kinematical transition from an infalling envelope to a quiescent core around the
protostar L1489 IRS”,
East-Asia ALMA Science Workshop 2019, ASIAA, Taipei, Taiwan, Feb., 2020
<http://events.asiaa.sinica.edu.tw/workshop/20200219/>

Principal Investigator Observing Proposals

IRAM-30 m Telescope

“Kinematical Transition from Cores to Envelopes around Evolved Protostars”,
Project 129-19, 2019 winter (Grade A, 36 hours)

“Kinematical Transition from a Core to an Envelope”
Project 136-18, 2018 winter (Grade A, 21 hours)

Atacama Large Millimeter/submillimeter Array / Atacama Compact Array

“The Kinematical Transition between the Envelope and Core around Young
Embedded Protostars”
Project 2019.1.01063.S, Cycle 7 (Grade B, 16.6 hours)

Research Grants

Sep. 2019 Grant from the Hayakawa Satio Fund, Astronomical Society of Japan

Publications List

Jinshi Sai (Insa Choi)

(The University of Tokyo)

(i) First-Author Papers (Refereed)

1. “Disk Structure around the Class I Protostar L1489 IRS Revealed by ALMA: A Warped- disk System”
J. Sai, N. Ohashi, K. Saigo, T. Matsumoto, Y. Aso, S. Takakuwa, Y. Aikawa, I. Kurose, H.-W. Yen, K. Tomisaka, K. Tomida, and M.N. Machida
The Astrophysical Journal, 893, 51, 2020

(ii) Other Refereed Papers

2. “ALMA Reveals a Misaligned Inner Gas Disk inside the Large Cavity of a Transitional Disk”
S. Mayama (+16 co-authors and J. Sai, 12th)
The Astrophysical Journal, 868, L3, 2018