Ali Ahmad Khostovan

Contact Information

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Research Interests

I'm interested in studying galaxy evolution with a background in $z \sim 0.4$ to ~ 9 emission line galaxies traced via narrowband surveys, spectroscopic follow-ups, and broadband nebular color excess surveys. Recently, I've been very much interested in extreme emission line galaxies at various cosmic epochs to understand what physical processes/mechanisms are driving high EWs and what it means in terms of star-formation activity, ionizing photon budget, and implications for Reionization. This also convolves with my interest in studying key statistical and physical properties of star-forming galaxies (LFs, SMFs, EWs), environmental dependencies on star-formation and galaxy, investigations of changing ISM conditions via spectroscopy, and investigating star-formation histories using latest SED fitting suites and spectra. I also am interested in creating large spectroscopic surveys using archived data and developing tools to visualize them.

Publication Record (October 2023)

Number of Publications (first author): **29 (7)**.
Total citations (first author): **2666 (217)**.
h-index: **18**. i10-index: **21**. g-index: **30**. m-index: **1.3**

Current Position

Postdoctoral Research Associate — Sept 2021 – present
Rochester Institute of Technology
Supervisor: Dr. Jeyhan Kartaltepe
Focus: A Public COSMOS Spectroscopic Archive

Visiting Researcher — Oct 2021 – present
NASA Goddard Space Flight Center

Past Positions

NASA Postdoctoral Program Fellow — Sept 2018 – Sept 2021
Goddard Space Flight Center
Supervisors: Dr. Sangeeta Malhotra & Dr. James Rhoads

Education

University of California, Riverside — 2013 – 2018
PhD, Physics
Adviser: Prof. Bahram Mobasher & Dr. David Sobral
Dissertation: The Evolution of Star-Forming Galaxies using the Largest Narrowband Surveys

University of California, Riverside — 2012 – 2013
MS, Physics
Adviser: Prof. Bahram Mobasher

University of California, Irvine — 2008 – 2012
BS, Physics (Specialization in Astrophysics)
Honors - Cum Laude
Adviser: Prof. Asantha R. Cooray

Research Fellowships

NASA Postdoctoral Program Fellow — Sept 2018 – Sept 2021
Astrophysics Science Division

Goddard Space Flight Center

NASA Earth & Space Sciences PhD Fellow 2016 – 2018
Department of Physics & Astronomy,
University of California, Riverside

Chancellor's Distinction Fellow 2012 – 2013
Department of Physics & Astronomy,
University of California, Riverside

National Science Foundation REU Intern June – Aug. 2011
Center for Astrophysics,
Harvard University

Undergraduate Research Opportunities Program Fellow Jan. – June 2011
Department of Physics & Astronomy,
University of California, Irvine

Summer Undergraduate Research Program Fellow June – Sept. 2010
Department of Physics & Astronomy,
University of California, Irvine

Awards

Anne Kernan Award for Outstanding Senior Graduate Student Researcher June 2018
Prestigious award given to senior PhD students for their research and achievements throughout their graduate school years

Outstanding Teaching Assistant Award June 2018
Awarded to students for demonstrating effective teaching skills

GSA Conference Travel Grant June – July 2016
Funding from Graduate Student Association to attend a conference

National Science Foundation Graduate Research Fellowship 2012, 2013, 2014
Honorable Mention (3 times)

Chambliss Astronomy Achievement Student Award Jan. 2012
Honorable Mention – 219th AAS Meeting

Graduate Co-Supervision

Santosh Harish, 5th year PhD Student Sept. 2018 – March 2020
Project: Statistical Properties of Hα- and [OIII]-selected emission line galaxies at $z \sim 0.6$
Institution: Arizona State University, Tempe & NASA GSFC
Paper: Harish et al., 2020, ApJ, 892, 30

Undergraduate Supervision

Mehruba Zaman, 2nd year Biology student Jan. - June 2017
Project: Effects of Nebular Emission Lines in SED fittings using narrowband-selected samples
Title: NASA FIELDS Undergraduate Intern

Community Outreach

RIT Galaxy Evolution Journal Club Sept 2022 – present
Purpose: Lead organizer of RIT journal club

Gemini Fast Turnaround TAC January 2023
Purpose: Reviewed and Graded Short Fast Turnaround Proposals

Emission Lines in Galaxies: Discovery and Diagnostics June 2021
Main Co-Organizer of Meeting-in-a-Meeting Session
238th AAS meeting – *Received Approval 15 Jan 2021*

NASA Program Reviewer 2021, 2023
Purpose: Expert reviewer in a NASA peer review

NASA Review Panel Fall 2020
Purpose: Review Proposals for Research Funding Purposes

Awarded Proposals

Gemini Fast Turnaround GS-2023A-FT-201
Title: Strong Outflows from a $z \sim 2.5$ CIV Emitter: Star-forming or AGN driven?
Role: PI
Nights: 2 hours Flamingos-2 Observations

Keck PI Award (PID 88/2022B_N190)
Title: Confirmation of the Highest Redshift [OII] Emitters at $z \sim 5$
Role: PI
Nights: 2 half nights
Funding: $13,975

JWST Cycle 1 #2321
Title: The first blind Hα narrow-band survey of star-formation at $z > 6$
Role: CoI

JWST Cycle 1 #1635
Title: Galaxy Protoclusters as Drivers of Cosmic Reionization
Role: CoI

Observing Experience

Blanco 4m Telescope – CTIO, Chile
DECam (photometry): 1.5 nights

W. H. Keck Observatory – Mauna Kea, Hawaii
DEIMOS (spectra): 8 nights
MOSFIRE (spectra): 8.5 nights

Subaru Telescope – Mauna Kea, Hawaii
FMOS (spectra): 1 night

William Herschel Telescope – La Palma, Canary Islands, Spain
ISIS (spectra): 2 nights

Technical Skills

Programming Skills: Python (main), IDL, Shell Script, C, SQL
Computer Skills: Mac OSX, Windows, Ubuntu, LaTeX, PowerPoint
Astronomical Tools: DS9, TopCat, SExtractor, IRAF/PyRAF
Photo-z Tools: EaZY, LePhare
SED & Line Fitting: CIGALE, PROSPECTOR, MAGPHYS, PyQSOFit
Data Reduction Experience: Pypeit (extensive), FIBER-pac, MOSFIRE DRP

Data Experience: Extensive experience analyzing observer-frame optical and near-IR spectroscopic data. Many year experience creating clean, reliable samples of narrowband-selecting galaxies.
Machine Learning: KDTree, Clustering, Nearest Neighbors
Statistical Analyses: MCMC, Metropolis-Hastings, Bootstrapping, Bayesian Statistics, MLE

Public Outreach

AST Graduate Skills Seminar 1 Oct 2021
Career Panelist
Discussion of how to succeed in the Postdoc Job Market
School of Physics & Astronomy, Rochester Institute of Technology

Virtual Science Night and Career Panel 10 Febr 2021
Providing mini science lectures and career advice for local students
Ramona High School in Riverside, CA

What is an Astronomer? – Early Childhood Learning Center 3 June 2019
Public talk to Preschoolers at the Irvine Unified School District in California

Public Telescope Observation – UC Riverside 20 Febr 2018
Public event on UCR campus. Prepared/Operated Telescopes

Press Release: "Distant galaxies glow bright in oxygen" Oct 2016
Public outreach of results in Khostovan et al. (2016)
Distributed to UCRToday, Lancaster, Astronomy Now, My Science, and other science media sources

Long Night of Arts and Innovation – Downtown Riverside Oct 2015 & 2017
Large event hosted by City & County of Riverside
Interact with Community and answer astronomy-related questions
Setup/Operate Telescopes

Cosmic Thursday – UC Riverside 2014 – 2016 (monthly)
Setup and Operate Telescopes and answer questions from the community

Teaching Experience

astroTopics 2017 – 2018; Sept 2022 – present
A get together I first started during my PhD years and restarted at RIT for Jeyhan Kartaltepe's group. The idea is to select a topic of interest (e.g., Overview of rest-frame optical nebular diagnostics) and we all do our own background search (e.g., papers, books, lectures, youtube videos). After a week, we all get together and share what we have learned about that specific topic. It creates an environment of equals that allows undergrads, PhD students, and postdocs to collectively learn from each other. My role would also include running the weekly get togethers, start/lead the discussion, and ensure a safe environment for everyone to learn (especially students to feel safe and ask questions from senior students, postdocs, and faculty).

TA: The Violent Universe (non-science majors) Winter 2014 & 2015
An introduction to violent phenomena that power the universe, specifically phenomena that illustrate basic astrophysical principles. Topics include impacts in our planetary system: explosions of stars, bursts of star formation, galaxy collisions, black holes, quasars, cosmic jets, and the "Big Bang"

TA: Origins (non-science majors) Fall 2013, 2014, 2015

Explores the most fundamental questions in cosmology, physics, and chemical sciences through their origins. Topics include the origin of the Universe, origin of matter, first generation of stars and galaxies, origin of chemical elements, chemistry of life, and astrobiology.

TA: General Physics Lab (Engineering Students) Spring 2014

Covers topics in mechanics, thermodynamics, and electromagnetism. Includes fluid mechanics, temperature, and heat, the laws of thermodynamics, kinetic theory of gases, electric fields and potentials, current and DC circuits, capacitance and inductance, magnetism, and Faraday's law.

TA: General Physics (Biology Students) Winter 2013

Covers topics in mechanics, thermodynamics, and electromagnetism. Includes fluid mechanics, temperature, and heat, the laws of thermodynamics, kinetic theory of gases, electric fields and potentials, current and DC circuits, capacitance and inductance, magnetism, and Faraday's law.

TA: General Physics Lab (Biology Students) Winter 2013, Spring 2013, Summer 2015

Laboratory course that covers harmonic oscillations, mechanical and electromagnetic waves, geometrical optics, reflection, refraction, interference, diffraction, and polarization, and quantum, atomic, and nuclear physics. Course also covers classical mechanics including Newton's laws of motion, work, energy, and conservation of energy, momentum and collisions, rotational motions, and orbital motion.

Talks

Roman Science Inspired by Emerging JWST Results 20 – 23 June 2023
Space Telescope Science Institute
Title: Let's Go Extreme with Roman: Observing $z \sim 0.5 - 2$ low and high EW ELGs

COSMOS Team Meeting 23 – 26 May 2023
Rochester Institute of Technology
Title: Past Spectra for Future Science: A Public COSMOS Spectroscopic Archive

COSMOS Team Meeting 11 – 13 July 2022
IAP, Paris, France
Title: Past Spectra for Future Science: A Public COSMOS Spectroscopic Archive
Virtual Talk due to COVID-19

Astrophysical Sciences & Technology Colloquium 7 Dec 2021
Rochester Institute of Technology
Title: A 13 Billion Year Old Story told by Narrowband Surveys
Invited Colloquium Talk

Roman Science Team Community Briefing 18 Nov 2021
NASA Goddard Space Flight Center
Title: Measurements of Hα Equivalent Width Distributions: The Second Tool in *Roman* Grism Survey Planning
Virtual Talk

Emission Lines in Galaxies: Discovery and Diagnostics June 2021
238th American Astronomical Society Conference
Title: Intrinsic Properties of Hα Equivalent Width Distributions from $z \sim 0.4 - 2$: Implications on Episodic Star Formation Histories
Invited Talk for Meeting-in-a-Meeting Session

NASA Early Career Scientist Forum 10 – 13 Nov 2020
Goddard Space Flight Center

Title: Mapping the Redshift Evolution of Hα Equivalent Width Distributions: Implications for NGRST Grism Surveys
Virtual Talk

Galaxy Formation and Evolution in the Era of NGRST 5 – 9 Oct 2020
Space Telescope Science Insititute, Baltimore, Maryland
Title: Intrinsic Properties of Hα Equivalent Width Distributions
Virtual Recorded Talk

USRA Site Visit 20 Aug 2020
Goddard Space Flight Center
Title: Evolution of Star-Forming Galaxies using the Largest Narrowband Surveys
Virtual Talk

LAGER Team Workshop 13 – 16 July 2020
Virtual Meeting
Title: Physical Correlations of Hα Equivalent Width Distributions: Real or Selection Driven?

WFIRST Science Jamboree 2 March 2020
Flatiron Institute, New York City, New York
Title: Statistical Properties of $z > 0.4$ Hα, [OIII] and [OII] Emitters: Implications for WFIRST

235th American Astronomical Society Conference 4 - 8 January 2020
Honolulu, Hawaii
A large, deep 3 deg^2 survey of Hα, [OIII], and [OII] emitters from LAGER: constraining luminosity functions

COSMOS 2019 14 - 17 March 2019
Flatiron Institute, New York City, New York
Title: The Lyα and UV luminosity-dependent clustering of typical Lyα emitters up to $z \sim 6$

SED Director's Seminar 9 Nov 2018
Goddard Space Flight Center
Title: Properties of Star-Forming Galaxies with the Largest Narrowband Surveys

NASA Early Career Scientist Forum 1 Nov 2018
Goddard Space Flight Center
Title: Clustering Properties of Typical Lyα Emission Line Galaxies

231st American Astronomical Society Conference 8 - 12 January 2018
Washington, DC
Title: Clustering Properties of Emission Line Selected Galaxies over the past 12.5 Gyrs

Astrophysics Seminar – Lancaster University 22 June 2017
Title: Clustering Properties of [OIII] and [OII] emitters over the past 12.5 Gyrs

Galaxy Evolution Across Time Conference 12 - 16 June 2017
Paris, France
Title: Clustering Properties of [OIII] and [OII] emitters over the past 12.5 Gyrs

Astrophysics Seminar – Lancaster University 4 July 2016
Title: Exploring the Young Universe with the Largest Emission Line Surveys

National Astronomical Meeting 27 June - 1 July 2016
Univ. of Nottingham
Title: The Nature of Hβ+[OIII] and [OII] emitters to $z \sim 5$ with HiZELS: stellar mass functions and the evolution of EWs

228th American Astronomical Society Conference 12 - 16 June 2016
San Diego, California
Title: The Nature of Hβ+[OIII] and [OII] emitters to $z \sim 5$ with HiZELS: stellar mass functions and the evolution of EWs

Astronomy Seminar – Univ. of Lisboa 13 Mar. 2015
Title: Probing the Evolution of Hβ+[OIII] and [OII] emitters up to $z \sim 5$ with HiZELS

Master's Class – Univ. of Lisboa 12 Mar. 2015
Title: Probing the Evolution of Hβ+[OIII] and [OII] emitters up to $z \sim 5$ with HiZELS

Special Astronomy Seminar - UC Irvine 24 Febr. 2015
Title: Probing the Evolution of Hβ+[OIII] and [OII] emitters with HiZELS

Smithsonian Astrophysical Observatory Research Symposium 10 Aug 2011
Center for Astrophysics, Harvard University
Title: Molecular Demographics of the Pipe Nebula: The Chemical Evolution

Star Formation Lunch Seminar 8 Aug 2011
Center for Astrophysics, Harvard University
Title: Molecular Demographics of the Pipe Nebula: The Chemical Evolution

POSTERS

Large-Volume Spectroscopic Analyses of AGN and Star-Forming Galaxies in the Era of JWST 29 Mar – Apr 1 2022
Space Telescope Science Institute (STScI)
Title: Building A Public Spectroscopic Archive of the COSMOS Legacy Field

NASA Sciences & Exploration Directorate Poster Party 23 Jan 2020
Goddard Space Flight Center
Title: The Lyα and UV luminosity-dependent clustering of typical Lyα emitters up to $z \sim 6$

233rd American Astronomical Society Conference 6 - 10 Jan 2019
Seattle, Washington
Title: The Lyα and UV luminosity-dependent clustering of typical Lyα emitters up to $z \sim 6$

Back at the Edge of the Universe Conference 15 - 19 Mar 2015
Sintra, Portugal
Title: Evolution of the Hβ+[OIII] and [OII] Luminosity Functions and the [OII] Star-Formation History of the Universe up to $z \sim 5$

219th American Astronomical Society Conference 8 - 12 Jan 2012
Austin, Texas
Title: Herschel HerMES: Identifying Counterparts in CANDELS HST & SpUDS IRAC data

Inaugural Center for Galaxy Evolution Workshop 1 - 2 Mar 2011
Univ. of California, Irvine
Title: Spitzer Imaging of Herschel-ATLAS Gravitationally Lensed Submillimeter Sources

217th American Astronomical Society Conference 9 - 13 Jan 2010
Seattle, Washington
Title: Spitzer Imaging of Herschel-ATLAS Gravitationally Lensed Submillimeter Sources

References

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Rochester Institute of Technology
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Prof. Bahram Mobasher
University of California, Riverside
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Lancaster University
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Dr. James Rhoads
NASA Goddard Space Flight Center
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Dr. Sangeeta Malhotra
NASA Goddard Space Flight Center
E-mail: sangeeta.malhotra@nasa.gov

First-Author Refereed Publications

A. A. Khostovan, S. Malhotra, J. Rhoads, et al. (2024)
Redshift, Stellar Mass-dependent Evolution of Hα Equivalent Widths from $z \sim 0.4-2.2$: implications for star formation, *NGRST*, and *Euclid*
MNRAS, submitted

A. A. Khostovan, S. Malhotra, J. Rhoads, et al. (2021)
Correlations between Hα Equivalent Width and Galaxy Properties at $z = 0.47$: Physical or Selection-Driven?
MNRAS, 503, 5115

A. A. Khostovan, S. Malhotra, J. Rhoads, et al. (2020)
A large, deep 3 deg^2 survey of Hα, [OIII], and [OII] emitters from LAGER: constraining luminosity functions
MNRAS, 493, 3966

A. A. Khostovan, D. Sobral, B. Mobasher, et al. (2019)
The clustering of typical Lyα emitters from $z \sim 2.5-6$: host halo masses depend on Lyα and UV luminosities
MNRAS, 489, 555

A. A. Khostovan, D. Sobral, B. Mobasher, et al. (2018)
The clustering of Hβ+[OIII] and [OII] emitters since $z \sim 5$: dependencies with line luminosity and stellar mass
MNRAS, 478, 2999

A. A. Khostovan, D. Sobral, B. Mobasher, et al. (2016)
The nature of Hβ+[OIII] and [OII] emitters to $z \sim 5$ with HiZELS: stellar mass functions and the evolution of EWs
MNRAS, 463, 2363
Press Release Hyperlink

A. A. Khostovan, D. Sobral, B. Mobasher, et al. (2015)
Evolution of the Hβ+[OIII] and [OII] Luminosity Functions and the [OII] Star-Formation History of the Universe up to $z \sim 5$
MNRAS, 452, 3948

Other Refereed Publications

F. Sinigaglia, G. Rodighiero, ..., **A. A. Khostovan** et al. (submitted)
MIGHTEE-HI: HI galaxy properties in the large-scale structure environment at $z \sim 0.37$ from a stacking experiment
MNRAS, submitted

S. Rezaee, N. Reddy, ..., **A. A. Khostovan** et al. (2023)
Exploring the correlation between Hα-to-UV ratio and burstiness for typical star-forming galaxies at $z \sim 2$
MNRAS, 526, 1512

C. Casey, J. Kartaltepe, ..., **A. A. Khostovan** et al. (2023)
COSMOS-Web: An Overview of the JWST Cosmic Origins Survey
ApJ, 954, 31

S. Harish, I. Wold, S. Malhotra, ..., **A. A. Khostovan** et al. (2022)
New spectroscopic confirmations of Lyα emitters at z $\sim$ 7 from the LAGER survey
ApJ, 934, 167

I. Wold, S. Malhotra, J. Rhoads, ..., **A. A. Khostovan** et al. (2022)
LAGER Lyα Luminosity Function at $z \sim 7$: Implications for Reionization
ApJ, 927, 36

S. Rezaee, N. Reddy, ... **A. .A. Khostovan** et al. (2021)
Variation of the nebular dust attenuation curve with the properties of local star-forming galaxies
MNRAS, 506, 3588

S. Santos, D. Sobral, ..., **A. A. Khostovan** et al. (2021)
The Evolution of the UV luminosity and Stellar Mass Functions of Lyα emitters from $z \sim 2$ to $z \sim 6$
MNRAS, 505, 1117

W. Hu, J. Wang, L. Infante, ..., **A. A. Khostovan** et al. (2021)
A Lyman-α protocluster at redshift 6.9
Nature, 5, 485

S. Harish, A. Coughlin, J. Rhoads, ..., **A. A. Khostovan** et al. (2020)
A Comprehensive Study of Hα Emitters at $z \sim 0.62$ in the DAWN Survey: the Need for Deep and Wide Regions
ApJ, 892, 30

W. Hu, J. Wang, Z. Zheng, ..., **A. A. Khostovan** et al. (2019)
The Lyα Luminosity Function and Cosmic Reionization at $z \sim 7.0$: a Tale of Two LAGER Fields
ApJ, 886, 90

M. Jafariyazani, B. Mobasher, ..., **A. A. Khostovan** et al. (2019)
Spatially Resolved Properties of Galaxies from CANDELS+MUSE: Radial Extinction Profile and Insights on Quenching
ApJ, 887, 204

Z. Zheng, J. Rhoads, J. Wang, ..., **A. A. Khostovan** et al. (2019)
Design for the First Narrowband Filter for the Dark Energy Camera: Optimizing the LAGER Survey for $z \sim 7$ Galaxies
PASP, 131, 4502

D. Sobral, S. Santos, J. Matthee, ..., **A. A. Khostovan** et al. (2018)
Slicing COSMOS with SC4K: the evolution of typical Lyα emitters and the Lyα escape fraction from $z \sim 2$ to $z \sim 6$
MNRAS, 476, 4725

T. Suzuki, T. Kodama, M. Onodera, ..., **A. A. Khostovan** et al. (2017)
The interstellar medium in [OIII]-selected star-forming galaxies at $z \sim 3.2$
ApJ, 849, 39

J. Matthee, D. Sobral, P. N. Best, **A. A. Khostovan** et al. (2017)
The production and escape of Lyman-Continuum radiation from star-forming galaxies at $z \sim 2$ and their redshift evolution
MNRAS, 465, 3637

H. Nayyeri, S. Hemmati, B. Mobasher, ..., **A. A. Khostovan** et al. (2017)
CANDELS Multi-wavelength Catalogs: Source Identification and Photometry in the CANDELS COSMOS Survey Field
ApJS, 228, 7

T. Suzuki, T. Kodama, D. Sobral, **A. A. Khostovan** et al. (2016)
[O III] emission line as a tracer of star-forming galaxies at high redshifts: comparison between Hα and [OIII] emitters at $z = 2.23$ in HiZELS
MNRAS, 462, 181

D. Sobral, J. Matthee, P. N. Best, I. Smail, **A. A. Khostovan** et al. (2015)
CF-HiZELS, a 10 deg^2 emission-line survey with spectroscopic follow-up: Hα, [OIII], and [OII] luminosity functions and sample variance at $z = 0.8$, 1.4, and 2.2
MNRAS, 451, 2303

S. Kim, J. Wardlow, A. Cooray, S. Fleuren, W. Sutherland, **A. A. Khostovan**, et al. (2012)
Spitzer IRAC Identification of Herschel-ATLAS SPIRE Sources
Astrophysical Journal, 756, 28

R. Hopwood, J. Wardlow, A. Cooray, **A. A. Khostovan**, et al. (2011)
Spitzer Imaging of Herschel-ATLAS Gravitationally Lensed Submillimeter Sources
Astrophysical Journal Letter, 728, L4+

A. M. Koekemoer, S. M. Faber, ... **A. A. Khostovan**, et al. (2011)
CANDELS: The Cosmic Assembly Near-infrared Deep Extragalactic Legacy Survey - The Hubble Space Telescope Observations, Imaging Data Products and Mosaics
Astrophysical Journal Supplement, 197, 36K

A. Amblard, A. Cooray, ... **A. A. Khostovan**, et al. (2011)
Sub-millimetre galaxies reside in dark matter halos with masses greater than 3×10^{11} solar masses
Nature, 470, 510

A. Cooray, ... **A. A. Khostovan**, et al. (2010)
The Herschel-SPIRE Legacy Survey (HSLS): the scientific goals of a shallow and wide submillimeter imaging survey with SPIRE
White Paper

A. Cooray, ... **A. A. Khostovan**, et al. (2010)
HerMES: Halo Occupation Number and Bias Properties of Dusty Galaxies from Angular Clustering Measurements
Astronomy & Astrophysics, 518, L22+

In Prep Publications

A. A. Khostovan, J. Kartaltepe, M. Salvato, O. Ilbert, C. Casey, et al.
COSMOS Redshift Compilation (working title)

A. A. Khostovan, J. Kartaltepe, et al.
COSMOS Spectroscopic Archive I. Subaru/FMOS (working title)

A. A. Khostovan, J. Kartaltepe, et al.
COSMOS Spectroscopic Archive II. Gemini/GMOS (working title)

A. A. Khostovan, J. Kartaltepe, et al.
COSMOS Spectroscopic Archive III. Intense Extreme Emission Line Galaxy at $z \sim 0.8$: Analog of high-z star-forming galaxies (working title)