TALKS		
Aleksandra Grudskaia	Degeneracies in forward modelling of strong gravitational lens galaxies	In this work, we aim to constrain dark matter properties with optical observations of gravitational lenses. We use a forward modelling
Andrea Bolamperti	Extended surface brightness modeling of three sources strongly lensed by an ultra-massive elliptical galaxy	Despite the discovery of hundreds of galaxy-scale lenses, there are only few known cases in which two sources at different redshifts are
Aristeidis Amvrosiadis	A multi-wavelengths view of the ISM for two dusty star-forming galaxies at z~4	Dusty star-forming galaxies at the peak of cosmic star-formation and beyond have been at the forefront of galaxy evolution studies for the
Ashish Kumar Meena	Extremely magnified stars in cluster lenses	The first serendipitous detection of a highly magnified star in a spiral galaxy (z=1.49) lensed by a galaxy cluster, MACS1149 (z=0.54), has
Birendra Dhanasingham	Effectively Investigating Dark Matter Microphysics with Strong Gravitational Lensing Anisotropies in the Era of Big Data	Strong gravitational lensing has emerged as a promising tool for probing the nature and distribution of dark matter on sub-galactic
Chin Yi Tan	Testing the bulge-halo conspiracy: joint lensing-dynamics constraint	From observations of strong lensing, stellar dynamics, and X-ray
Chris Fassnacht	on the mass profile of elliptical galaxies from the largest galaxy- Finding the golden lenses for dark matter investigations	intensity, the total density profile in elliptical galaxies has been found As we enter the era of big data, strong gravitational lens samples will
Conor O'Riordan	The multiple subhalo conspiracy	vastly increase in size. Although data from large surveys will provide In gravitational imaging, dark matter models can be constrained by
Dan Ryczanowski	Gravitationally lensed gravitational waves - detection prospects in O4	searching for dark matter subhaloes in strong lenses. We reveal here Unambiguous detection of a lensed gravitational wave will unlock
Daniel Ballard	and beyond  Gravitational imaging through a triple source plane lens	exciting new science in fundamental physics, cosmology and The validity of the Cold Dark Matter (CDM) paradigm is currently
Daniel Gilman	Constraints on beyond-LambdaCDM dark matter physics from	poorly constrained on sub-galactic scales. Lens modelling can  The properties of dark matter halos and subhalos on scales below
Davide Abriola	quadruply-imaged quasars  Combined strong and weak gravitational lensing mass	10^9 solar masses depend on the formation mechanism, mass, and Gravitational lensing in clusters of galaxies is one of the most
Devon Powell	measurements in galaxy clusters  Warm and fuzzy dark matter constraints using a single VLBI	powerful methods to probe the dark matter mass distribution inside  Strong gravitational lensing by galaxies provides us with a powerful
	observation of a gravitationally lensed radio jet	laboratory for testing dark matter models. Various particle models for We produce a list of Quadruply Imaged Quasar candidates found in
Devon Williams	Finding quadruply imaged quasars with machine learning  Sub-haloes or systematics: Flux ratios anomalies of quadruply	the Dark Energy Survey (DES) Year 6 images by applying a  Anomalous flux ratios between lensed images can provide a key test
Di Wen	lensed radio AGN Learning about the structure of AGNs from lightcurves of hundreds of	of the dark matter sub-halo population, and hence the properties of Lightcurves of strongly lensed AGNs are mostly scrutinised for
Dominique Sluse	strongly lensed AGNs  Observational constraints on the sub-galactic matter power	measuring the time delays between lensed images, a key ingredient  While a direct detection of the dark-matter particle remains very
Dorota Bayer	spectrum from galaxy-galaxy strong gravitational lensing  Bayesian Neural Networks: machine learning, uncertainties and	challenging, it could be possible to constrain the nature of dark
Fabrizio Gentile	strong lensing	About 100.000 strong gravitational lenses will be discoverable in the massive datasets produced by next-generation facilities such as
Georgios Vernardos		Analysis of galaxy-galaxy lens systems can lead to groundbreaking results on the mass content of the galaxy-lens, allowing to place
Giovanni Granata	Investigating the structure of cluster galaxies with combined strong lensing and stellar kinematics	Strong lensing (SL) is a powerful probe of the dark matter mass distribution in the cores of galaxy clusters, providing us with insights
Giuseppe Angora	Deep Learning based search for galaxy scale-lenses in galaxy cluster environment	In the current era of big data, the development of methods able to autonomously extract information from vast multi-dimensional
Hakon Dahle	Finding lens systems with extreme properties.	We report on discoveries of new samples of lens systems with extreme properties, based on our ongoing lens searches in public
Han Wang	Constraining the multi-scale dark-matter distribution in CASSOWARY 31 with strong gravitational lensing and stellar	Measuring the distribution of dark matter within dynamically relaxed galaxy groups provides an opportunity to test the evolution of dark
Hannah Turner	Insights into the inner structure of the SLACS lens galaxies from multiple-component dynamical modelling	The combination of strong lensing and dynamical studies is an especially powerful tool in decoupling the stellar and dark matter
Irham Taufik Andika	When Spectral Modeling Meets Convolutional Networks: A Method for Discovering Reionization-era Lensed Quasars in Multi-band	Over the last two decades, around three hundred quasars have been discovered at redshift > 6, yet only one was identified as being
Jared Cathey	Signatures of a Merger in SPT 0418-47	SPT 0418-47 is a high redshift lensed galaxy recently observed as part of the JWST ERS program TEMPLATES (Targeting Extremely
Javier Alejandro Aceveda Barroso	Searching for lensing by edge-on galaxies in UNIONS	Gravitational lensing has proven to be a very powerful tool to measure the mass profile of galaxies. In particular, the combination
John McKean	The first search for strong gravitational lenses with the International LOFAR Telescope	Gravitational lenses that are also radio-bright can provide a unique sample of systems that can be used for studying galaxy formation,
Jose Diego	Extremely magnified stars at z>1	The discovery of Icarus represented the beginning of a new branch of strong lensing that focuses on stars at cosmological distances
Joshua Fagin	Measuring the Substructure Mass Power Spectrum of 23 SLACS Strong Galaxy-Galaxy Lenses Using an Uncertainty Aware CNN	Strong gravitational lensing can be used as a tool to study the substructure in the mass distribution of galaxies and to constrain
Justin Pierel	LensWatch: Hubble Observations and Constraints for Two New Gravitationally Lensed Supernovae	Two new gravitationally lensed supernovae (SNe), both spectroscopically classified as Type Ia, were discovered in August
Karl Glazebrook	A large space based lens survey	The next few years will see a boon in large samples of gravitational
Lukas Furtak	Very Large Telescopes (VLTs) in the sky Modeling large-scale clusters with multiple strong lensing cores in the JWST era	lenses observed with ground based images (e.g. LSST) and space With the advent of the JWST, a new era in high-redshift galaxy
Lyne Van de Vyvere	Large data set of lensed quasars: higher accuracy on H0? The angular structures viewpoint.	observations has begun. Using strong lensing (SL) galaxy clusters as Thanks to Euclid, the Rubin Observatory, the Roman Space
Martin Millon	Strong lensing *by* quasars in the era of large imaging and	Telescope and the Chinese Space Station Telescope, a tremendous The tight correlations found between the mass of the supermassive
Matt O'Dowd	spectroscopic surveys.	black holes (SMBH) and their host galaxy luminosity, stellar mass, In the near future, wide field surveys will discover 1000's of new
Matthew Gomer	Accounting for population-level systematic effects using a	strongly lensed quasars, and these will be monitored with  More and more lens systems are being modeled with the intention to
Minghao Yue	hierarchical strategy  Measuring the high-redshift M-sigma relation using highly magnified	measure a joint constraint on \$H_0\$. While the statistical scatter is  The M-sigma relation is one of the most important indications for the
Nan Li	galaxies automated analysis of Strong gravitational lenses in the era of Big	coevolution of SMBHs and their host galaxies. The redshift evolution Gravitational lensing is considered one of the most powerful tools to
Nan Zhang	Data  Fitting the ALMA strong lensing images in the image plane	investigate the dark matter and dark energy in the Universe, which  Strong gravitational lensing serves as a cosmic telescope that
<del>-</del>		enables observations of faint and distant galaxies at high spatial  Gravitationally lensed supernovae are extremely rare and powerful
Nikki Arendse	The present and future of lensed supernovae: from ZTF to LSST  Where are the Eddington-limited starbursts? A sub-kpc view of star	probes that can reveal more about high-redshift supernova physics, In the past decade, submillimeter surveys have been employed to
Patrick Kamieneski	formation in lensed hyper-luminous dusty star-forming galaxies	define samples of gravitationally-lensed dusty star-forming galaxies Since its launch about one year ago, the high-angular resolution and
District Description	High-precision strong lensing models of galaxy clusters in the JWST	
Pietro Bergamini	era	sensitivity of the JWST have revolutionized our way of observing and
Q.Daniel Wang	era  X-raying Hyper-luminous Dusty Star-Forming galaxy via strong gravitational lensing	sensitivity of the JWST have revolutionized our way of observing and Extremely luminous dusty star forming galaxies (DSFGs) represent asymptotic examples of rapid star formation in the early Universe.
Q.Daniel Wang Qiuhan He	era X-raying Hyper-luminous Dusty Star-Forming galaxy via strong gravitational lensing Revealing lower mass dark matter substructures in HST imaging of strong lenses via Multi-Gaussian Expansions (MGEs)	sensitivity of the JWST have revolutionized our way of observing and Extremely luminous dusty star forming galaxies (DSFGs) represent asymptotic examples of rapid star formation in the early Universe. Galaxy-galaxy strong gravitational lensing acts as a promising tool to constrain the dark matter particle mass, by detecting small dark
Q.Daniel Wang	era  X-raying Hyper-luminous Dusty Star-Forming galaxy via strong gravitational lensing  Revealing lower mass dark matter substructures in HST imaging of strong lenses via Multi-Gaussian Expansions (MGEs)  Cosmology and stellar physics with strongly lensed supernovae in the era of LSST	sensitivity of the JWST have revolutionized our way of observing and Extremely luminous dusty star forming galaxies (DSFGs) represent asymptotic examples of rapid star formation in the early Universe. Galaxy-galaxy strong gravitational lensing acts as a promising tool to constrain the dark matter particle mass, by detecting small dark Supernovae (SNe) that are gravitationally lensed into multiple images offer interesting avenues to probe stellar physics and cosmology.
Q.Daniel Wang Qiuhan He	era  X-raying Hyper-luminous Dusty Star-Forming galaxy via strong gravitational lensing  Revealing lower mass dark matter substructures in HST imaging of strong lenses via Multi-Gaussian Expansions (MGEs)  Cosmology and stellar physics with strongly lensed supernovae in the era of LSST  Multi-component Analysis of Strong Lensing Galaxy Clusters as an Observational Test of ΛCDM Predictions	sensitivity of the JWST have revolutionized our way of observing and Extremely luminous dusty star forming galaxies (DSFGs) represent asymptotic examples of rapid star formation in the early Universe. Galaxy-galaxy strong gravitational lensing acts as a promising tool to constrain the dark matter particle mass, by detecting small dark Supernovae (SNe) that are gravitationally lensed into multiple images offer interesting avenues to probe stellar physics and cosmology. The properties of the mass and light distributions for galaxy clusters are sensitive to deviations from the expected alignment of these
Q.Daniel Wang Qiuhan He Raoul Canameras	era  X-raying Hyper-luminous Dusty Star-Forming galaxy via strong gravitational lensing  Revealing lower mass dark matter substructures in HST imaging of strong lenses via Multi-Gaussian Expansions (MGEs)  Cosmology and stellar physics with strongly lensed supernovae in the era of LSST  Multi-component Analysis of Strong Lensing Galaxy Clusters as an	sensitivity of the JWST have revolutionized our way of observing and Extremely luminous dusty star forming galaxies (DSFGs) represent asymptotic examples of rapid star formation in the early Universe. Galaxy-galaxy strong gravitational lensing acts as a promising tool to constrain the dark matter particle mass, by detecting small dark Supernovae (SNe) that are gravitationally lensed into multiple images offer interesting avenues to probe stellar physics and cosmology. The properties of the mass and light distributions for galaxy clusters

Shawn Knabel	Breaking MAD: joint constraints on the anisotropy and mass profile of massive elliptical galaxies	We measure spatially-resolved kinematics and model the dynamics of 14 SLACS lenses. Using observations from Keck KCWI integral	
Sreevani Jarugula	Nuisance invariant strong lens detection	With the next generation of telescopes and surveys, millions of strongly lensed galaxies are going to be discovered. Machine	
Stefan Schuldt	From image position to extended image modeling in the era of JWST: improved mass models of strong lensing clusters MACS 1149	Strong lensing (SL) in galaxy clusters is a powerful tool to probe various properties of the Universe. For instance, SL allows one to	
Sydney Erickson	Deep Learning and Hierarchical Inference to Infer H0 From All the Rubin Lenses	To achieve a high precision measurement of Dark Energy from strongly lensed AGN and supernovae, we need to take advantage of	
Tania Barone		Galaxy-galaxy strong lenses are well known for the rare opportunity they provide to measure the invisible dark matter content of the	
Uros Mestric	Very massive stars at cosmological distances	Investigating tiny structures (<100pc size) inside of the galaxies until recently was only feasible at lower redshift. Thanks to reliable lens	
POSTERS			
	BLR Structure and Mass Fraction in Compact Objects in SDSS	We use microlensing measurements to estimate the fraction of mass	
Carina Fian	J1004+4112 from Spectroscopic Data	composed of compact objects and the size of the background	
Cristiana Spingola	The first time-delay measured with VLBI: the radio view of the outstanding gamma-ray flare from PKS 1830-211	We present results from a dense VLBI monitoring of the brightest lensed blazar PKS 1830-211 (z=2,5). Time delays are a primary	
Edoardo Borsato	Study of a sample of Herschel selected strong lens candidates observed with HST.	The bright tail of the number counts of galaxies at sub-mm wavelengths comprises a mixture of distinct galaxy populations; low-	
Graham Smith	Strong lensing magnification bias and universal scalings in the era of big data	The era of big data is an exciting opportunity to discover hundreds of gravitationally lensed explosive transients, including many flavours of	
Jimena Gonzalez	Searching for gravitational lenses in the Dark Energy Survey	A sample of thousands of non-time-delay gravitational lenses can be used to study galaxy evolution by probing mass density profiles and	
Kim-Vy Tran	The AGEL Survey: Strong Gravitational Lenses in the DES and DECaLS Fields	We present spectroscopic confirmation of strong gravitational lenses as part of our ASTRO 3D Galaxy Evolution with Lenses (AGEL)	
Laura Leuzzi	Characterization of Convolutional Neural Networks for the identification of Galaxy-Galaxy Strong Lensing events	Studying galaxy-scale strong lenses enables tackling several problems, from the reconstruction of the mass distribution of the lens.	
Lorenzo Bazzanini	Advanced deep learning technique for searching arcs and lensed QSOs in galaxy clusters	As predicted by Refsdal, strongly lensed time-variable sources provide an alternative and independent way to other cosmological	
Marek Biesiada	Strong lensing - new opportunities in the era of big surveys and multimessenger astronomy	By now strong lensing has become a mature research field and brought important results both in extragalactic astronomy (study of	
Martin Makler	Constraints on modified gravity using Einstein rings: prospects for the LSST era	Galaxy-galaxy strong lensing systems provide useful probes of general relativity, allowing us to constrain the ratio \$\ext{s}\$ of the two	
Maverick Oh	Mid Section	The free-streaming length of dark matter is a key parameter that affects structure formation. In other words, fundamental properties of	
Nandini Sahu	Is the Conflict Real? Testing Galaxy Formation and Dark Matter Models with Strong Gravitational Lenses at 0.3 < z < 0.9	Combining ground-based spectroscopy with Hubble imaging, the ASTRO 3D Galaxy Evolution with Lenses (AGEL) survey has	
Pritom Mozumdar	Precise measurement of the Hubble constant using single apertures and spatially resolved kinematics.	The Hubble tension is one of the major unanswered questions in current physics with immense consequences, and time-delay	
Sangjun Cha	MAximum-entropy ReconStruction (MARS): A New Strong-lensing Reconstruction Algorithm for the JWST Era	The MAximum-entropy ReconStruction (MARS) method is a free- form strong-lensing (SL) reconstruction algorithm, which adopts the	
Sebastian Wagner-Carena	Machine Learning meets Hubble Data: Constraining Dark Matter with Strong Gravitational Lenses	Many of the alternative dark matter models significantly alter the abundance and distribution of collapsed, virialized structures (halos)	
Suhail Dhawan	Strongly lensed supernovae; Discovery to cosmology in the LSST era	Strongly lensed supernovae are excellent, independent probes to measure the Hubble constant and weigh in on the Hubble tension. In	

The impacts of source light galaxy morphology on the performance of neural networks used for substructure detection.

Microlensing in 7 quadruply lensed quasars Stellar mass fraction and quasar's accretion disk size in SDSS J1004+4112 from photometric follow-up strongly lenses supernovae are excellent, independent proces to neasure the Hubble constant and weigh in on the Hubble tension. In Warm and cold dark matter models predict very different bundancies of dark matter substructure within the halos of galaxies. The observation of gravitationally microlensed quasars provides direct measurements of the accretion disk structure. The flux The gravitational lens SDSS J1004+4112 was the first discovered with the process of the process o

system where a background quasar is lensed by a galaxy cluster

Tyler Hughes

Raquel Forés-Toribio