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Probing Galaxies through Quasar Absorption Lines

Edited by

Peter R. Williams
Cheng-Gang Shu
Brice Ménard

International Astronomical Union



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Probing Galaxies Through Quasar Absorption Lines (IAU C199) International Astronomical Union. Colloquium, 2005-12
Review of recent research in the field of quasar absorption line systems **Proceedings of the Twenty Sixth General Assembly Prague 2006** International Astronomical Union. General Assembly, 2008-12-18 IAU Transactions XXVIB contains the Proceedings of the IAU XXVII General Assembly held in Prague 14-25 August 2006 hosting a total of 2412 participants from 73 countries. The Assembly featured a rich scientific program comprising 6 Symposia, 17 Joint Discussions and 7 Special Sessions. During the program about 650 papers were presented and more than 1550 posters displayed. The Proceedings of the 6 Symposia have been published in the Proceedings of the IAU Symposia Series and the proceedings of the Joint Discussions and Special Sessions feature in IAU Highlights of Astronomy 14. Together with those 7 volumes, these Transactions cover the entire General Assembly. In addition to the scientific program, the XXVI General Assembly hosted the regular Business Meetings of the EC, the 12 Divisions, 40 Commissions and 75 Working Groups. This volume records the organizational and administrative business of the XXVI General Assembly and the status of the IAU membership **Probing the Connection Between the Intergalactic Medium and Galaxies with Quasar Absorption-line Spectroscopy** Charles William Finn, 2015 Probing Variations in the Fundamental Constants with Quasar Absorption Lines Michael Thomas Murphy, 2002 **Probing the Metal Enrichment of the Intergalactic Medium with Quasar Absorption Lines**, 2004

Probing Quasar Environments with Tunable Filter Imaging John D. Swinbank, 2006 **Probing Quasar Accretion Physics with Optical and X-ray Spectroscopy** Monica Young, 2011
Abstract: Black holes lurking at the centers of distant galaxies feed on gas to become quasars. The bulk of the powerful emission from radio-quiet quasars originates from two structures close to the central black hole: the accretion disk and the hot corona. The disk-corona relationship and its dependence on the rate of gas accretion onto the central black hole is not well understood in part because of the lack of knowledge regarding the corona temperature, density, and geometry. To gain a better understanding of the accretion physics that affect the growth and evolution of quasars as well as the evolution of their host galaxies, I perform a large-scale study of quasar optical through X-ray spectral energy distributions (SED). I have cross-correlated optical DR5 Sloan Digital Sky Survey (SDSS) quasars with the XMM-Newton archive of X-ray observations to obtain 792 optically selected quasars with X-ray observations; 473 of which have X-ray spectra. I investigate relations between accretion rate, optical and X-ray luminosity, and X-ray slope. I compare the observed correlations with population synthesis simulations to determine which correlations are intrinsic to the physics of quasar accretion and which are simply due to selection effects or the consequence of another correlation. I discuss the results with respect to physical models. At low accretion rates, the disk-corona structure may change significantly. I investigate this possibility in the case of red quasars by using optical and X-ray information to disentangle the effect of absorption and low accretion rates on red quasar SEDs. I find that 7 out of 17 of the reddest SDSS quasars are not

well described by absorption. Instead the red optical colors appear to be intrinsic to the accretion physics and are perhaps related to the low accretion rates $L/L_{\text{Edd}} \approx 0.05$ observed for these objects. By extending the intrinsically red quasar SEDs to the infrared and ultraviolet wavelengths I constrain standard disk models. By combining studies of large scale trends with case studies of quasar accretion under extreme conditions I investigate current models of disk corona interactions.

Quasar Spectroscopy in Ultraviolet and X-ray- Probing the Intergalactic Medium Using Helium and Oxygen

Donglai Gong, 2004. We employ ultraviolet (UV) and X-ray quasar spectroscopy to study the physical state of the Intergalactic Medium (IGM). First we quantify the possibility of measuring the temperature of moderately over dense regions of the IGM at high redshift $z \approx 2$ using the strongest resonant absorption lines of neutral hydrogen $\lambda_{\text{HI}} 1215.67 \text{ \AA}$ and neutral helium $\lambda_{\text{HeI}} 584.33 \text{ \AA}$. We calculate the fraction of neutral helium in the IGM at $z \approx 2$ by solving a set of photoionization equilibrium equations. Using known distributions of the redshift column density and Doppler beta parameter of Lyman alpha lines we perform Monte Carlo simulation to create a line list from which we calculate the number of observable HeI lines. We expect that 4-5% of the HI lines have observable HeI counterparts. Future ultraviolet (UV) telescope with wavelength coverage from 1400 $\text{\AA}$ to 2400 $\text{\AA}$ should be able to observe ≈ 16 HeI lines per line of sight observation. Second we analyze a combined 171 ksec spectroscopic observation of the low redshift quasar 3C 273 by the Chandra X-ray Observatory. We search for the high ionization state lines of OVII and OVIII at redshifts of known intervening OVI absorbers. Detection of associated OVII or OVIII absorptions in the X-ray would suggest the existence of a warm hot component of the Intergalactic Medium at temperature $T \approx 10^6 - 10^7 \text{ K}$. We observe an unresolved OVII line at $z \approx 0$ with a maximum Doppler beta parameter of 190 km/s. We do not see any associated OVII absorption for a $z \approx 0.12$ OVI absorber at the 3.5 sigma level. We provide most stringent to date Chandra resolution limited upper limit on the temperature of the $z \approx 0.12$ absorber and discuss the possibilities of photoionization and collisional ionization.

Quasars at All Cosmic Epochs Paola Marziani, Mauro D'Onofrio, Ascensión del Olmo, Deborah Dultzin, 2018-10-05. The last 50 years have seen a tremendous progress in the research on quasars. From a time when quasars were unforeseen oddities we have come to a view that considers quasars as active galactic nuclei with nuclear activity a coming of age experienced by most or all galaxies in their evolution. We have passed from a few tens of known quasars of the early 1970s to the 500,000 listed in the catalogue of the Data Release 14 of the Sloan Digital Sky Survey. Not surprisingly accretion processes on the central black holes in the nuclei of galaxies the key concept in our understanding of quasars and active nuclei in general have gained an outstanding status in present day astrophysics. Accretion produces a rich spectrum of phenomena in all bands of the electromagnetic spectrum. The power output of highly accreting quasars has impressive effects on their host galaxies. All the improvement in telescope light gathering and in computing power notwithstanding we still miss a clear connection between observational properties and theory for quasars as provided for example by the H-R diagram for

stars We do not yet have a complete self consistent view of nuclear activity with predictive power as we do for main sequence stellar sources At the same time quasars offer many windows open onto the unknown On small scales quasar properties depend on phenomena very close to the black hole event horizon On large scales quasars may effect evolution of host galaxies and their circum galactic environments Quasars potential to map the matter density of the Universe and help reconstruct the Universe s spacetime geometry is still largely unexploited The times are ripe for a critical assessment of our present knowledge of quasars as accreting black holes and of their evolution across the cosmic time The foremost aim of this research topic is to review and contextualize the main observational scenarios following an empirical approach to present and discuss the accretion scenario and then to analyze how a closer connection between theory and observation can be achieved identifying those aspects of our understanding that are still on a shaky terrain and are therefore uncertain knowledge This research topic covers topics ranging from the nearest environment of the black hole to the environment of the host galaxies of active nuclei and to the quasars as markers of the large scale structure and of the geometry of spacetime of the Universe The spatial domains encompass the accretion disk the emission and absorption regions circum nuclear starbursts the host galaxy and its interaction with other galaxies Systematic attention is devoted to some key problems that remain outstanding and are clearly not yet solved the existence of two quasar classes radio quiet and radio loud and in general the systematic contextualization of quasar properties the properties of the central black hole the dynamics of the accretion flow in the inner parsecs and the origin of the accretion matter the quasars small and large scale environment the feedback processes produced by the black hole into the host galaxy quasar evolutionary patterns from seed black holes to the present day Universe and the use of quasars as cosmological standard candles The timing is appropriate as we are now witnessing a growing body of results from major surveys in the optical UV X near and far IR and radio spectral domains Radio instrumentation has been upgraded to linear detector a change that resembles the introduction of CCDs for optical astronomy making it possible to study radio quiet quasars at radio frequencies Herschel and ALMA are especially suited to study the circum nuclear star formation processes The new generation of 3D magnetohydrodynamical models offers the prospective of a full physical modeling of the whole quasar emitting regions At the same time on the forefront of optical astronomy applications of adaptive optics to long slit spectroscopy is yielding unprecedented results on high redshift quasars Other measurement techniques like 2D and photometric reverberation mapping are also yielding an unprecedented amount of data thanks to dedicated experiments and instruments Thanks to the instrumental advances ever growing computing power as well as the coming of age of statistical and analysis techniques the smallest spatial scales are being probed at unprecedented resolution for wide samples of quasars On large scales feedback processes are going out of the realm of single object studies and are entering into the domain of issues involving efficiency and prevalence over a broad range of cosmic epochs The Research Topic Quasars at all Cosmic Epochs collects a large fraction of the contributions presented at a

meeting held in Padova sponsored jointly by the National Institute for Astrophysics the Padova Astronomical Observatory the Department of Physics and Astronomy of the University of Padova and the Instituto de Astrofísica de Andalucía IAA of the Consejo Superior de Investigaciones Científicas CSIC The meeting has been part of the events meant to celebrate the 250th anniversary of the foundation of the Padova Observatory *High Resolution Spectroscopy of Quasar Absorption Lines* Jill Eleanor Bechtold, 1986 Quasar Absorption Lines as Probes for High Redshift Superclusters Steven E. Persh, 1994

Multi-Phase Modeling of Intervening Quasar Absorption Line Systems at z Jackson Norris, 2019 To understand the formation and evolution of galaxies it is essential to understand the gas that exists in the vicinity of galaxies Mg II absorption systems probe the circumgalactic medium CGM around galaxies and can provide hints to the nature of the gas To fully understand the complex structure of the CGM it is necessary to investigate not only low ionization transitions such as those of Mg II but also transition lines associated with more diffuse high ionization material We report our analysis of six intervening quasar absorption line systems which probe the CGM at redshifts 0.4 Probing the Thermal History of the Intergalactic Medium with Ly α Absorption Lines Martin G. Haehnelt, Matthias Steinmetz, 1997 The Origins and Environments of Quasar Absorption Lines in the Sloan Digital Sky Survey, 2009 **Properties of Quasar Broad**

Absorption Line Outflows Daniel Moshin Capellupo, 2012 Broad absorption lines BALs in quasar spectra identify high velocity outflows that likely exist in all quasars and could play a major role in feedback to galaxy evolution In this dissertation I use two methods to illuminate important properties of these outflows with the goal of a better understanding of these outflow systems and ultimately of the connection between quasars and their host galaxies The variability of BALs can help us understand the structure evolution and basic physical properties of the outflows I report here on a BAL monitoring programme of a sample of 24 luminous quasars at redshifts 1.2 **Probing the Early Universe with the Epoch of**

Reionization and QSO Spectroscopy Michael Scott Matejek, Massachusetts Institute of Technology. Department of Physics, 2012 We present results from the first systematic survey for Mg II absorption lines at $z \geq 2.5$ Using 46 infrared QSO spectra we discovered 111 Mg II systems including five with $z \geq 5$ the most distant systems now known The comoving line density for weaker systems is statistically consistent with no evolution from $z = 0.4$ to $z = 5.5$ The density for stronger systems increases three fold until $z = 3$ before declining towards higher redshifts suggesting a connection to star formation The weaker systems lack of evolution does not fit within this interpretation but may be reproduced by extrapolating low redshift scaling relations between host galaxy luminosity and absorbing halo radius to earlier epochs Using new measurements from optical spectra of the same targets and low redshift control samples we study evolutionary trends in the chemical composition of Mg II systems from $z = 0.5$ to $z = 3.3$ We observe a significant strengthening in the characteristic N H I for fixed Mg II strength as one moves toward higher redshift We set lower limits on the metallicity where we can measure H I and find that systems with $W_{\lambda 2796} > 0.3 \text{ \AA}$ are quite metal rich at 0.1 Solar We speculate that if weaker Mg II systems represent accreting gas

then their high metal abundance suggests re accretion of recently ejected material rather than first time infall from the metal poor IGM even at early times We present a new technique for simultaneously fitting bright point sources in ungridded visibility data called the side lobe matrix technique We provide computational speedups which allow for real time implementation We derive analytic approximations for the error distributions of fit intensities in the presence of thermal noise imperfect calibration and ionospheric errors We find that the intensity errors of the brightest sources with imperfect calibration and ionospheric errors are dominated by self errors that exist independent of side lobe contamination We demonstrate that to lowest order the dynamic range obtained with calibration ionospheric errors is the same as when the source intensities are perfectly known

Cosmology with Quasar Absorption Lines Neil H. M. Crighton,2006

Structure and Kinematics of Quasar Broad Line Regions C. Martin Gaskell,1999 Annotation Proceedings of a March 1998 meeting with papers in sections on general considerations and photoionization modeling profile variation and reverberation mapping flows disks narrow line Seyfert 1 galaxies the intermediate line region and lower velocity gas X ray warm absorber and dust and unified theories and connections with extended emission Specific topics include spectral variability of NGC 4151 during 1990 and disk emission line issues Lacks a subject index The editor is associated with the University of Nebraska Annotation c Book News Inc Portland OR booknews com

Probing a Potential Bias in Investigating Dark Matter Substructures with Strongly Lensed Quasars Jen-Wei Hsueh,2018 Flux ratio anomalies in strongly lensed quasars provide a promising approach to probe dark substructure abundance in distant galaxies Two decades after the first major analysis more lenses with significantly better data quality are available However numerical simulations based on cold dark matter show low probabilities of reproducing the strong flux anomalies in some of the lenses In this thesis I present new lens models for the B1555 375 and B0712 472 lensed quasar systems that includes edge on disks based on the high resolution imaging from Hubble Space Telescope and Keck adaptive optics and successfully reproduce their strong flux ratio anomalies without a needs for dark substructures This result suggests that without considering the flux ratio anomalies introduced by baryonic components in lens galaxies the substructure abundance is likely to be overestimated A series of mock quasar lenses were then generated from the Illustris simulation to understand the baryon induced flux ratio anomalies As a result I found that edge on disks in lens galaxies can increase the flux ratio anomalies by 15 20% and even early type lenses can show almost equal to 8% increase from baryonic effects Therefore an improvement in the analysis process is needed in order to investigate detailed dark matter properties My future work will focus on a new joint analysis that includes both baryonic structures in lens galaxies and line of sight objects This project is expected to improve on the previous flux ratio anomaly analysis of substructure abundance in lens systems and demonstrate a new analysis strategy for upcoming large samples from JWST and future surveys

Quasars and Cosmology G. J. Ferland,Jack Allen Baldwin,1999

Unveiling the Magic of Words: A Review of "**Probing Galaxies Through Quasar Absorption Lines C199**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Probing Galaxies Through Quasar Absorption Lines C199**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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