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Authors	Sulentic, J. W., Del Olmo, A., MARZIANI, Paola, Martinez-Carballo, M. A., D'Onofrio, M., Dultzin, D., Perea, J., Martinez-Aldama, M. L., Negrete, C. A., STIRPE, Giovanna Maria, Zamfir, S.
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J/A+A/608/A122 Spectra of 28 intermediate redshift quasars (Sulentic+, 2017)

What does CIV λ1549 tell us about the physical driver of the Eigenvector quasar sequence?

Sulentic J.W., Del Olmo A., Marziani P., Martinez-Carballo M.A., D'Onofrio M., Dultzin D., Perea J., Martinez-Aldama M.L., Negrete C.A., Stirpe G.M., Zamfir S.

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Abstract:
Broad emission lines in quasars enable us to "resolve" structure and kinematics of the broad-line emitting region (BLR) thought to involve an accretion disk feeding a supermassive black hole. Interpretation of broad line measures within the 4DE1 formalism simplifies the apparent confusion among such data by contrasting and unifying properties of so-called high and low accreting Population A and B sources. H-beta serves as an estimator of black hole mass, Eddington ratio and source rest frame; the latter being a valuable input for CIV 1549 studies which allow us to isolate the blueshifted wind component. Optical and HST-UV spectra yield H-beta and CIV 1549 spectra for low-luminosity sources while VLT-ISAAC and FORS and TNG-LRS provide spectra for high-luminosity sources. New high-S/N data for CIV in high-luminosity quasars are presented here for comparison with the other previously published data. Comparison of H-beta and CIV 1549 profile widths/shifts indicates that much of the emission from the two lines arise in regions with different structure and kinematics. Covering a wide range of luminosity and redshift shows evidence for a correlation between CIV 1549 blueshift and source Eddington ratio, with a weaker trend with source luminosity (similar amplitude outflows are seen over four of the five dex luminosity ranges in our combined samples). At low luminosity (z<0.7) only Population A sources show evidence for a significant outflow while at high luminosity the outflow signature begins to appear in Population B quasars as well.

Description:
Spectroscopic data for 28 intermediate redshift quasars are identified in Table 1. Actual data files are in FITS format in the spectra sub-directory. Units are in wavelength in Angstroms, and specific flux in erg/s/cm^2/Angstrom (pW/m^3)x1E15 in the rest frame (i.e., after redshift correction). The last column of Table 1 reports the FITS file names.

File Summary:

FileName	Lrecl	Records	Explanations
ReadMe	80	.	This file
table1.dat	73	28	List of the program quasars
sp/*	0	28	Individual fits spectra

See also:
J/A+A/358/77 : Hamburg/ESO survey for bright QSOs. III. (Wisotzki+, 2000)

Byte-by-byte Description of file: table1.dat

Bytes	Format	Units	Label	Explanations
1- 11	A11	---	Name	Quasar identification name (HEHHMM+DDMM)
13- 14	I2	h	RAh	Right ascension (J2000)
16- 17	I2	min	RAm	Right ascension (J2000)
19- 23	F5.2	s	RAs	Right ascension (J2000)
25	A1	---	DE-	Declination sign (J2000)
26- 27	I2	deg	DEd	Declination (J2000)
29- 30	I2	arcmin	DEm	Declination (J2000)
32- 35	F4.1	arcsec	DEs	Declination (J2000)
37- 41	F5.2	---	Bmag	Apparent B magnitude taken from Wisotzki et al. (2000A&A...358...77W, Cat. J/A+A/358/77)
43- 48	F6.4	---	z	Redshift
50- 54	F5.1	---	BMAG	Absolute B magnitude (1)
56- 73	A18	---	FileName	Name of FITS file containing the spectrum in subdirectory sp

Note (1): obtained from Wisotzky et al. (2000A&A...358...77W, Cat. J/A+A/358/77)

corrected of galactic absorption and k-correction, and computed for
H_0=70km/s/Mpc, $Omega_M$=0.3, $Omega_{Lambda}$=0.7.

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Paola Marziani, paola.marziani(at)oapd.inaf.it
Ascension del Olmo, chony(at)iaa.es

(End) Patricia Vannier [CDS] 04-Oct-2017

The document above follows the rules of the Standard Description for Astronomical Catalogues; from this documentation it is possible to generate f77 program to load files into arrays or line by line

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