

SDSS ||||

SDSS-3: BOSS QSO

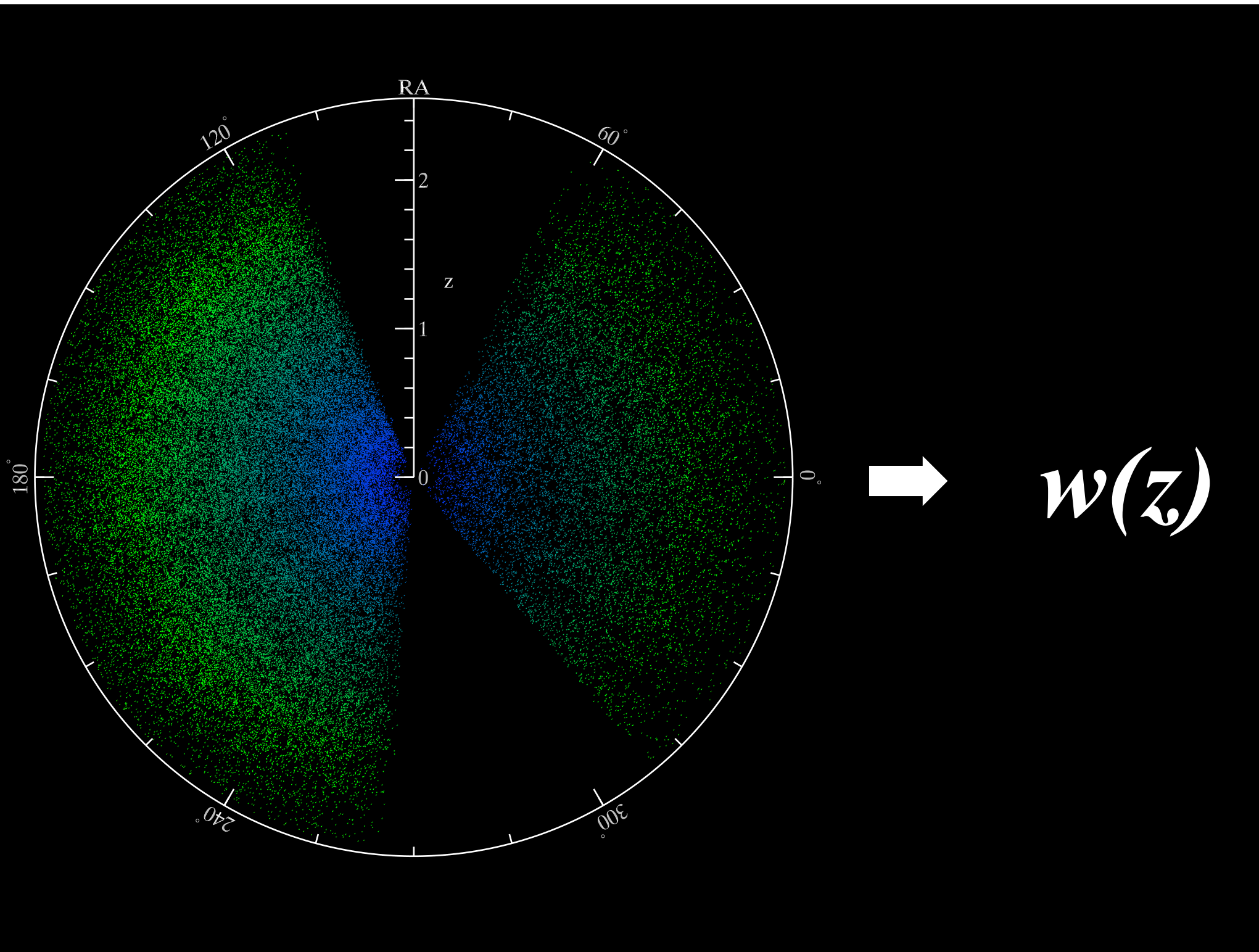
Nic Ross (LBNL)

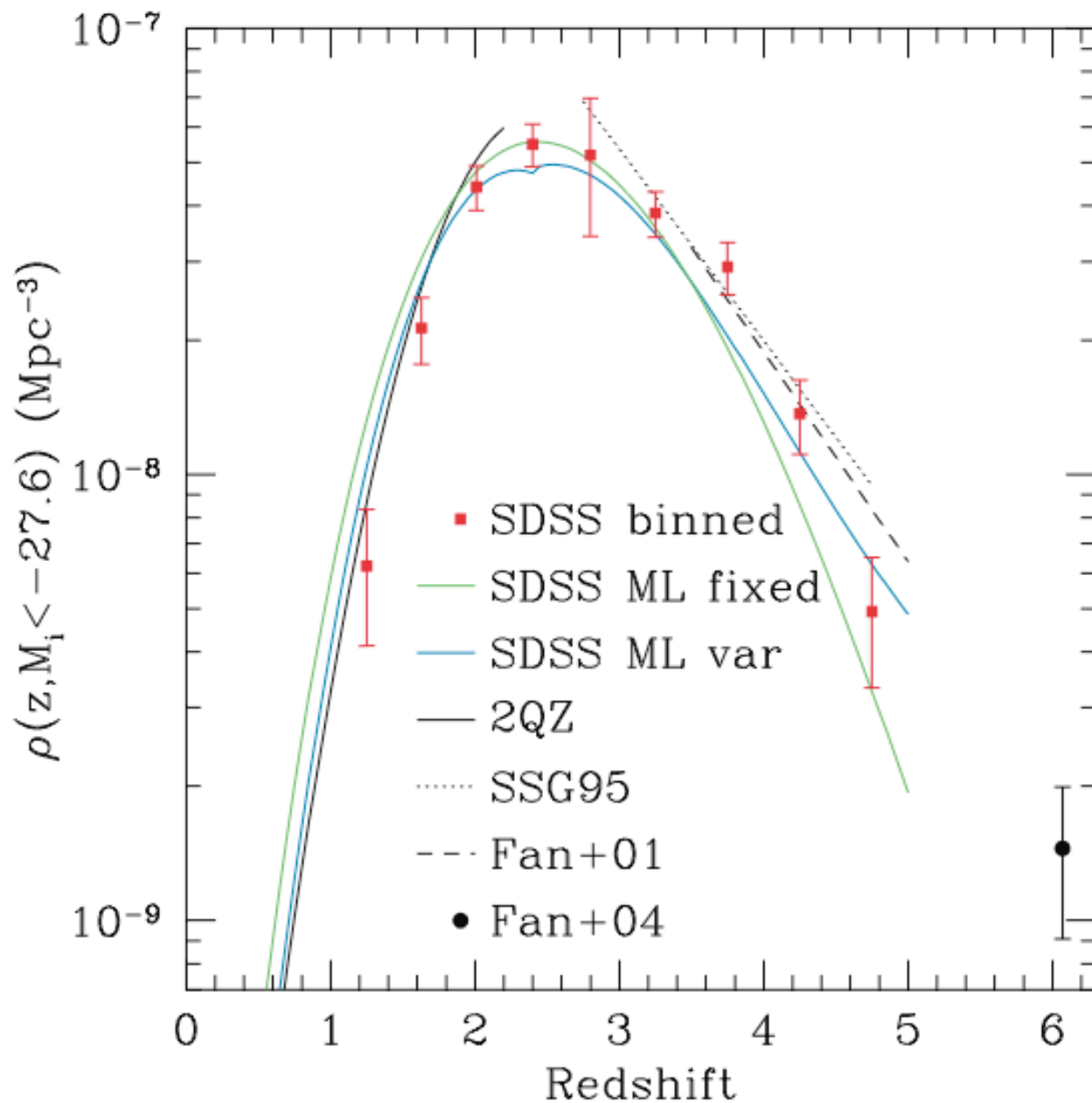
SDSS-3 Collaboration Meeting

APC, Paris

16 septembre 2010



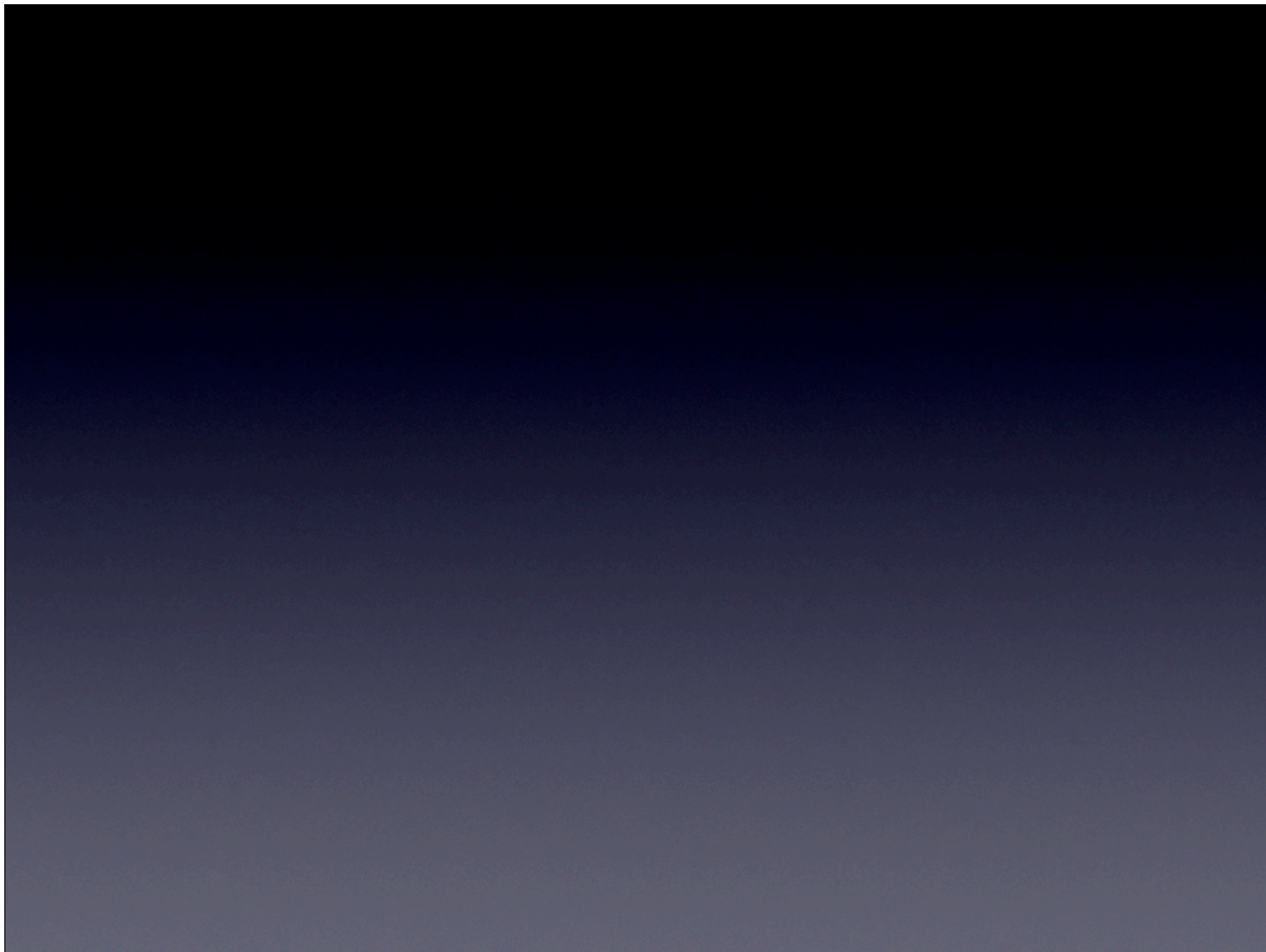




Richards et al. (2006, AJ, 131, 2766)

QSOs

$\text{Ly}\alpha\text{F}$



Catalogue

Year One

58,645 QSO target spectra*

*all visually inspected by **FPG!**

Year One

58,645 QSO target spectra*

24,296 objects with $z > 0.02$

*all visually inspected by **FPG!**

Year One

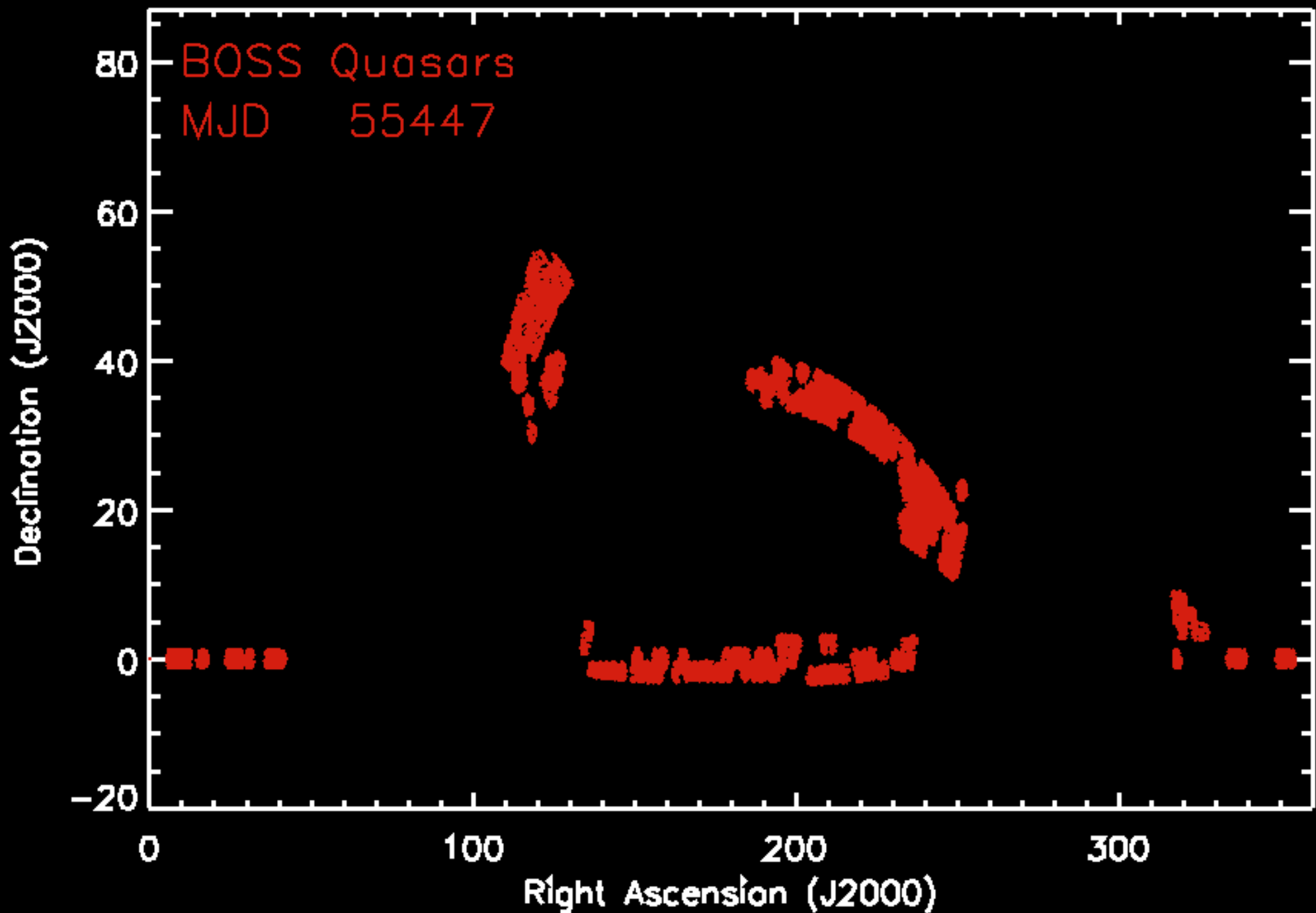
58,645 QSO target spectra*

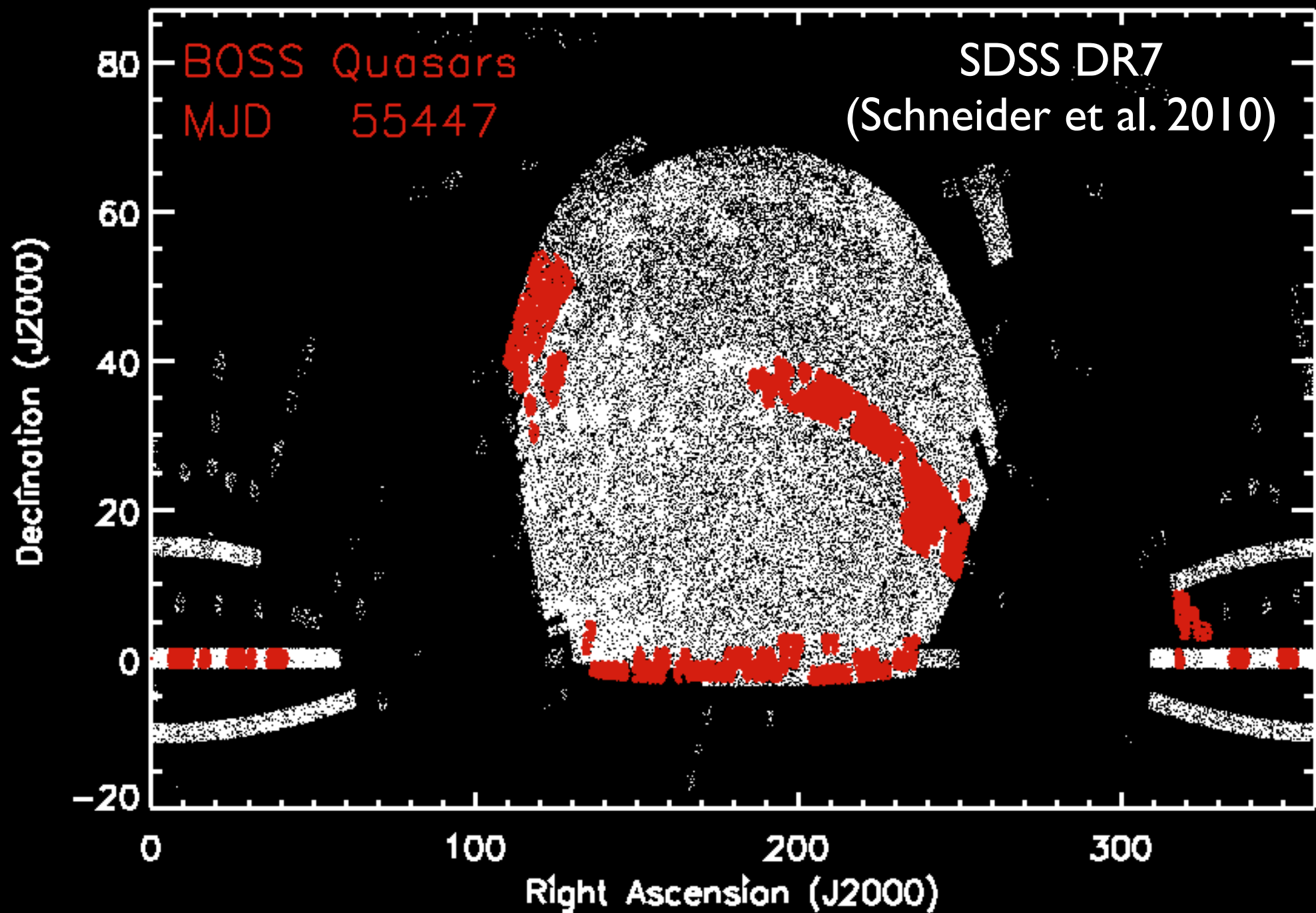
24,296 objects with $z > 0.02$

15,306 objects with $z > 2.20$

*all visually inspected by **FPG!**

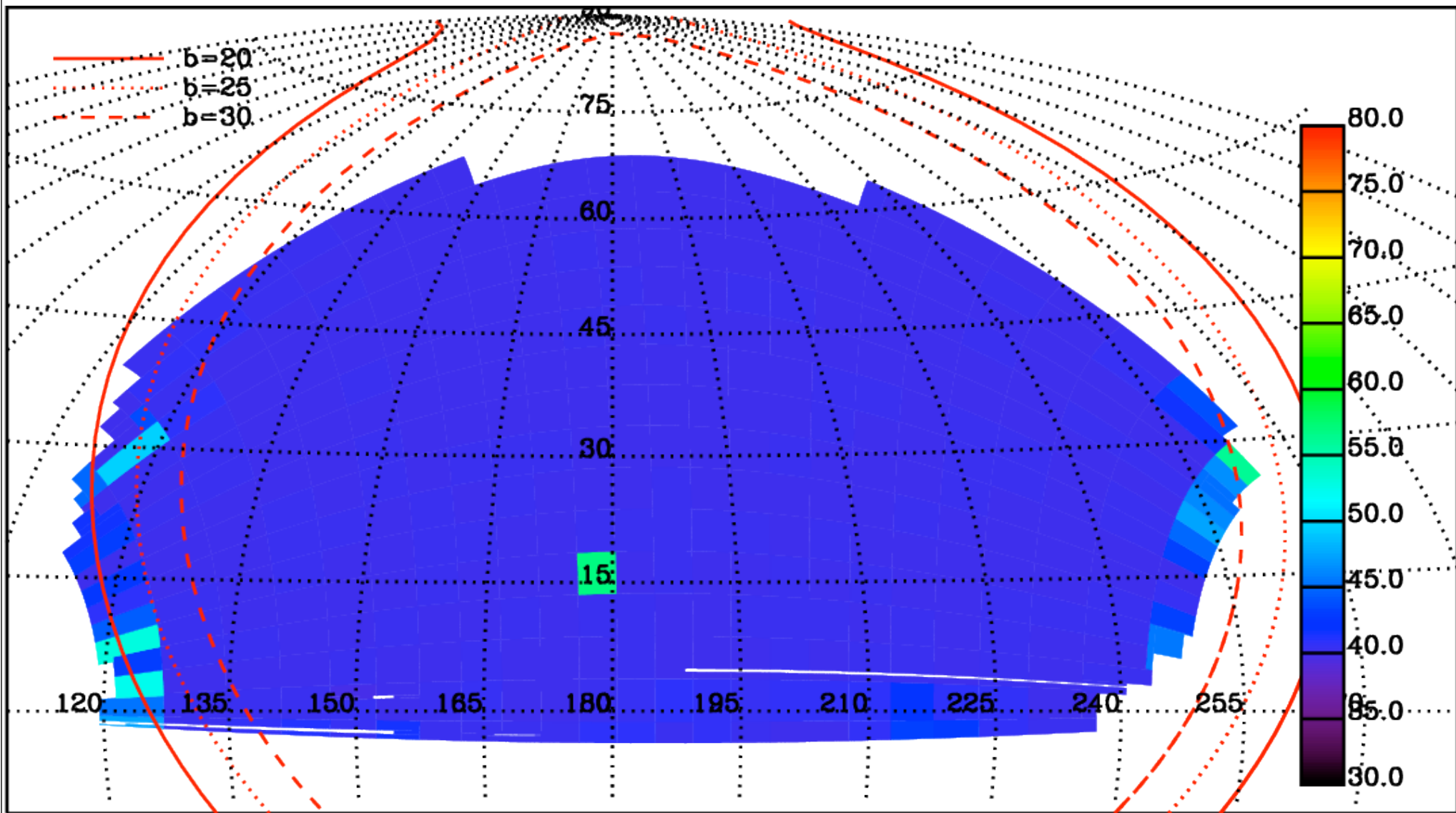
Coverage



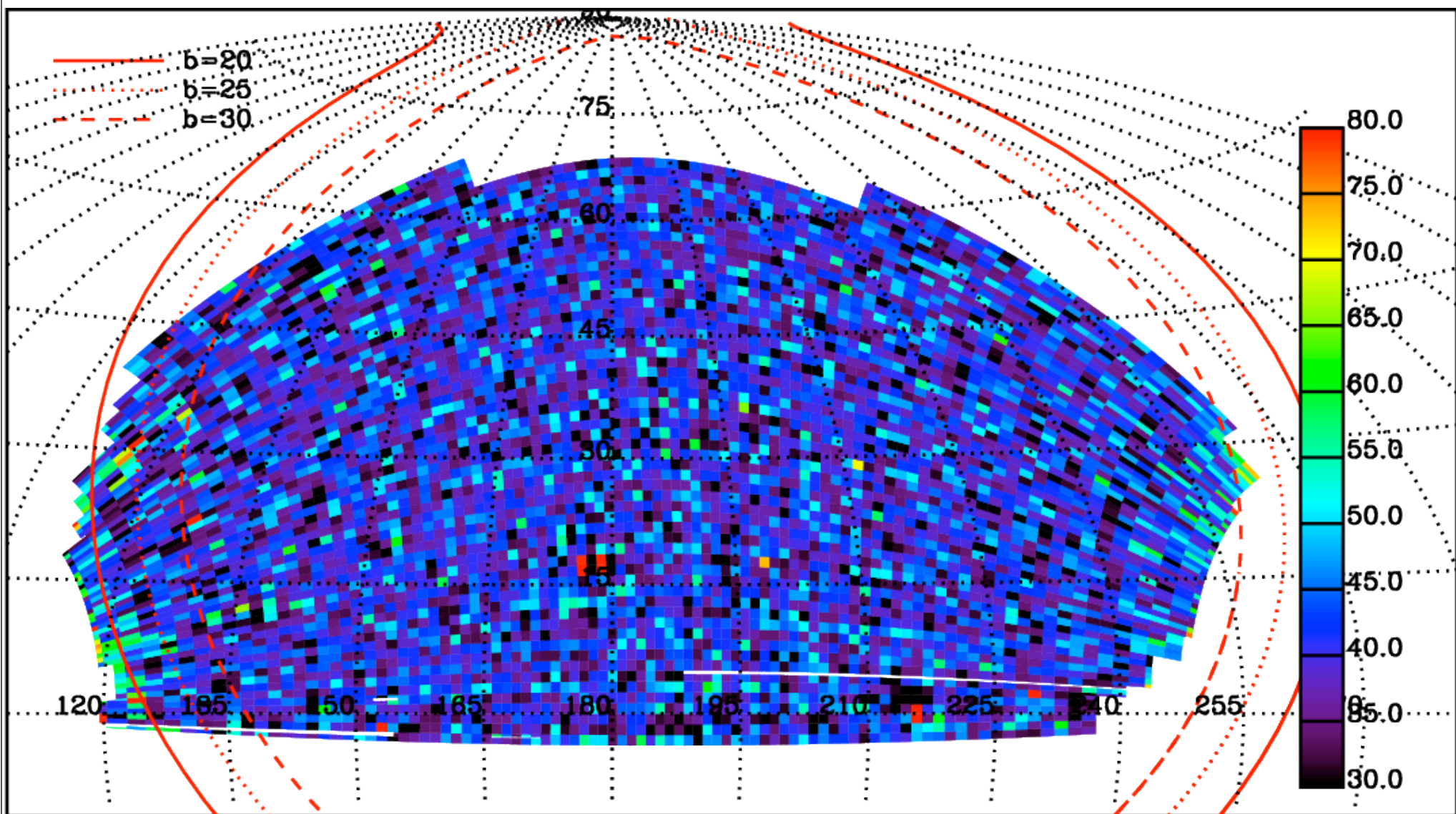


Target Selection

Sheldon, Myers, Yeche, Kirkpatrick *et al.*



Sheldon, Myers, *et al.*



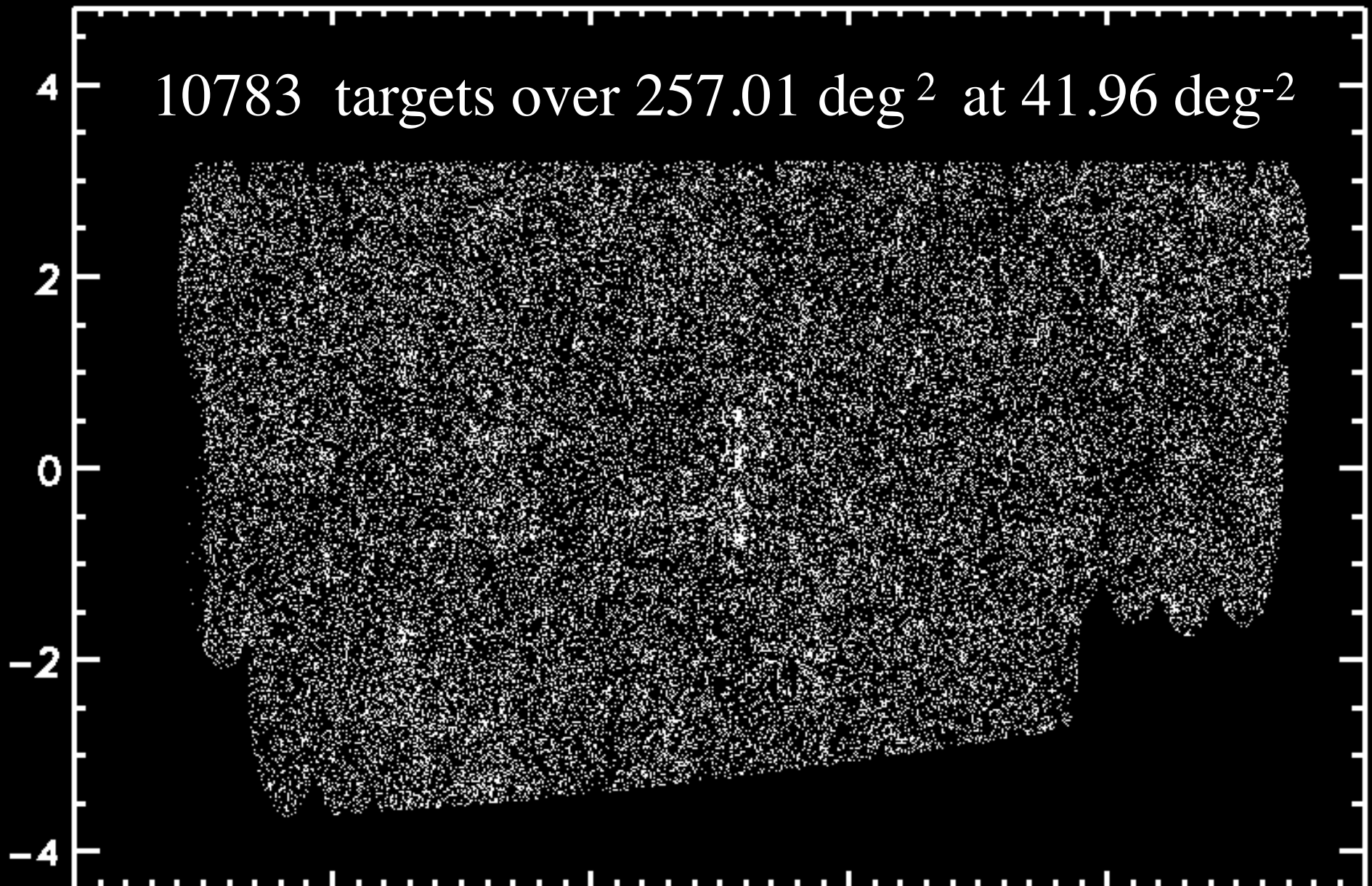
Sheldon, Myers, *et al.*

CORE *and* **BONUS**

boss7

10783 targets over 257.01 deg² at 41.96 deg⁻²

Declination (J2000)



190

200

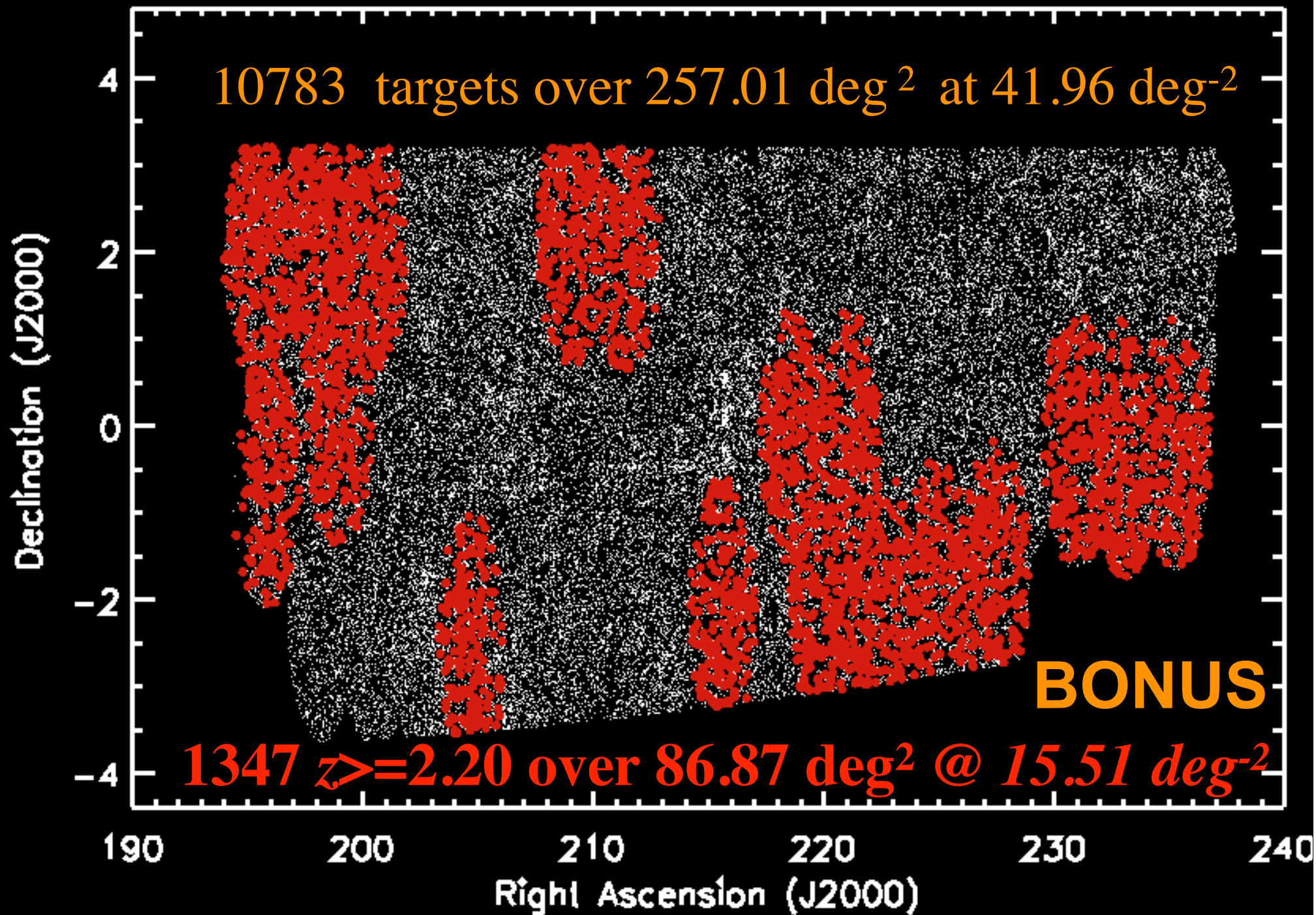
210

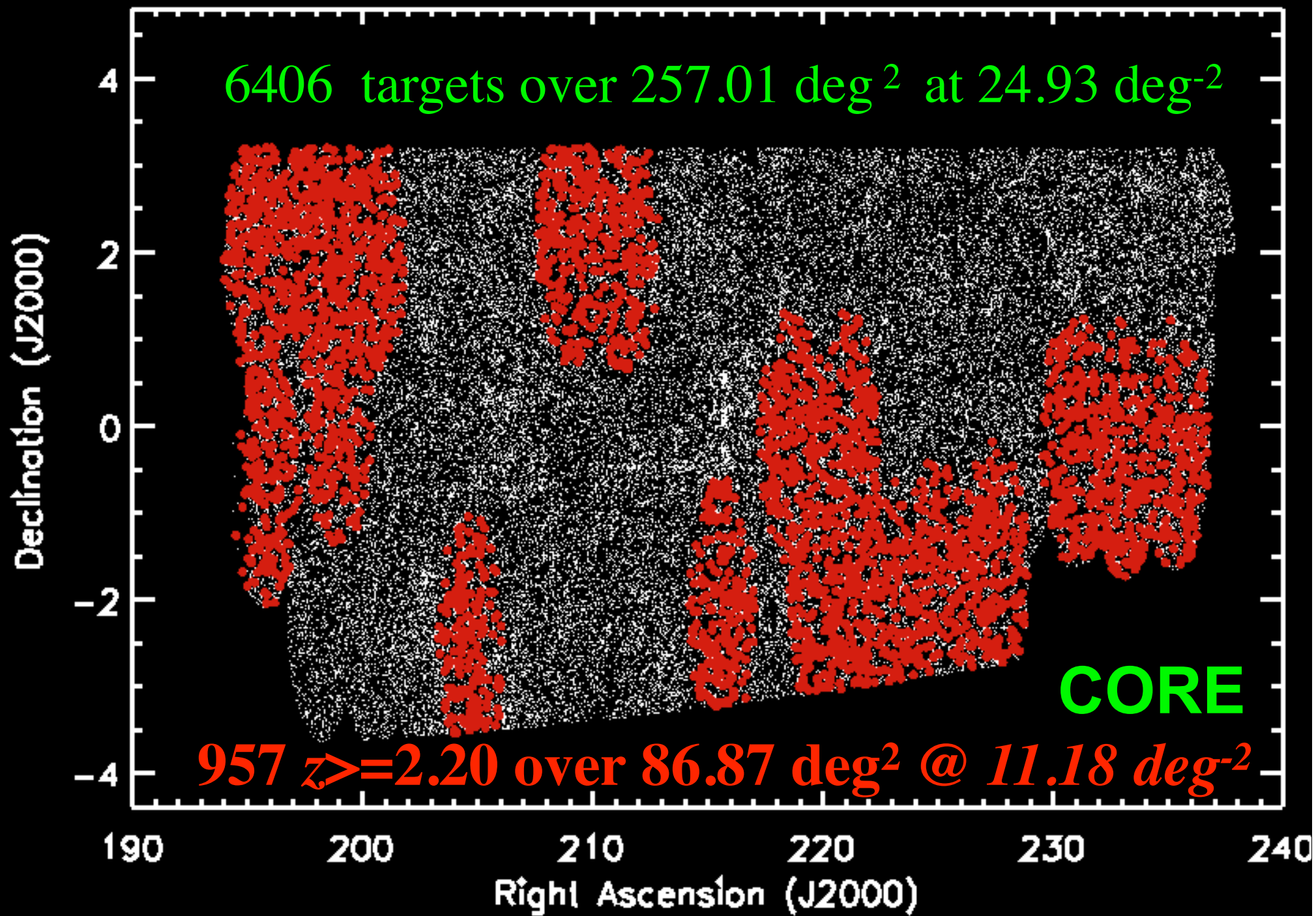
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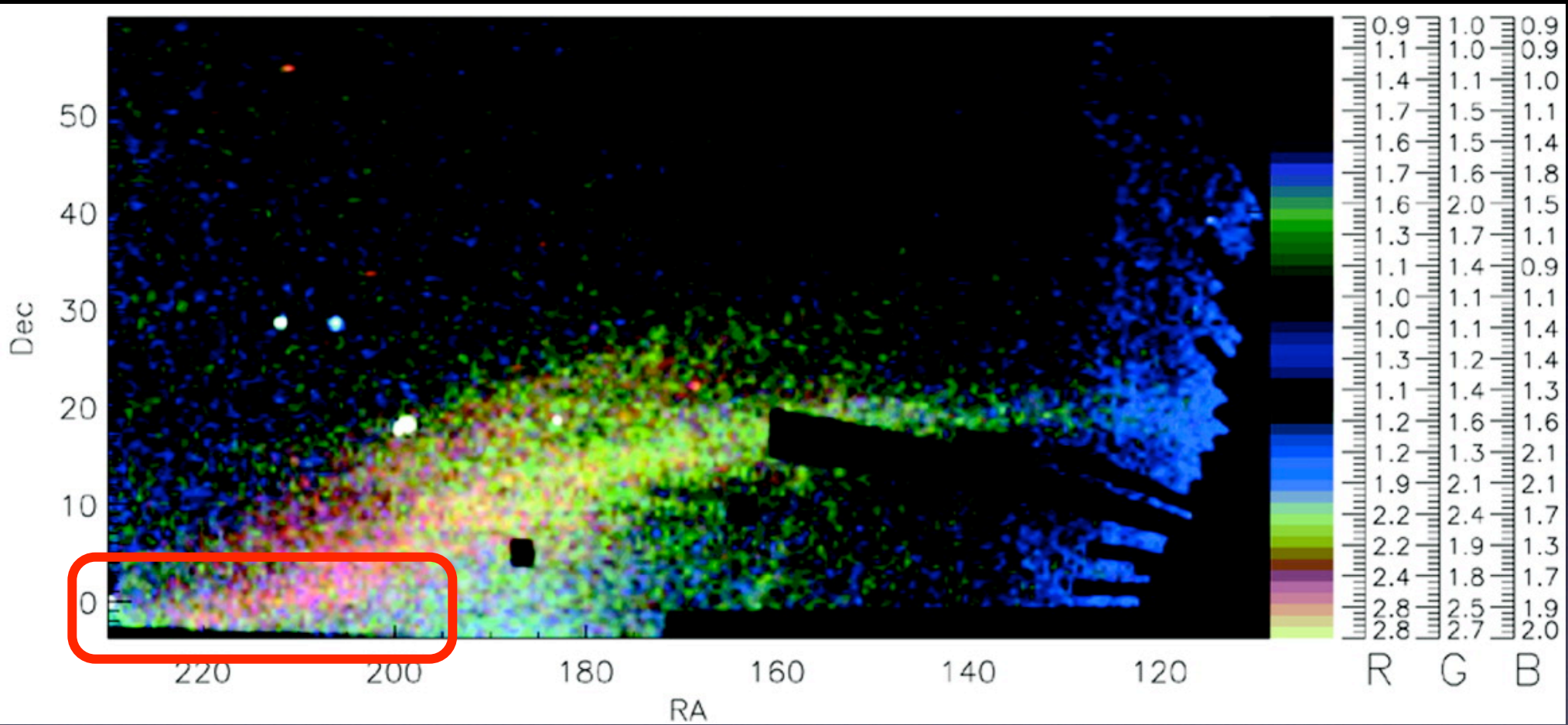
240

Right Ascension (J2000)





“Field of Streams”



Belokurov et al. (2006, ApJ, 642, L137)

BONUS

***15.46 deg⁻² from
>40 targets deg⁻²***

CORE

**9.42 deg⁻² from
≈ 20 targets deg⁻²**

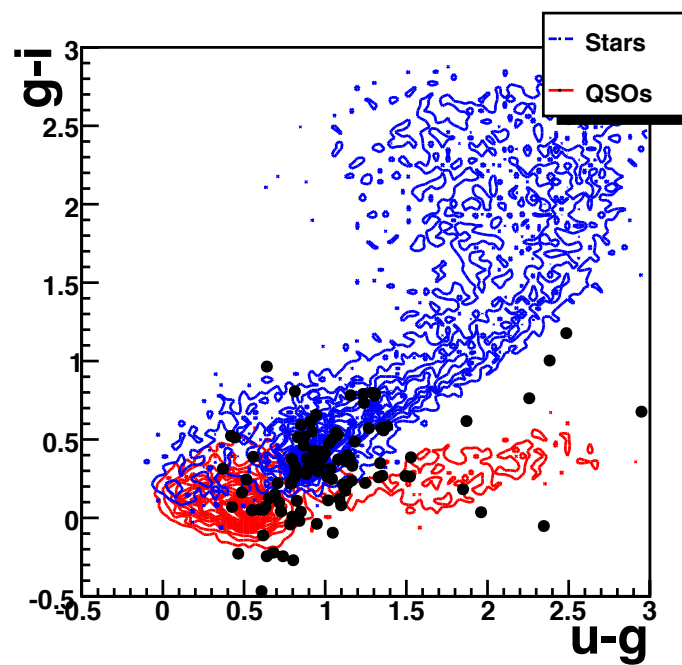
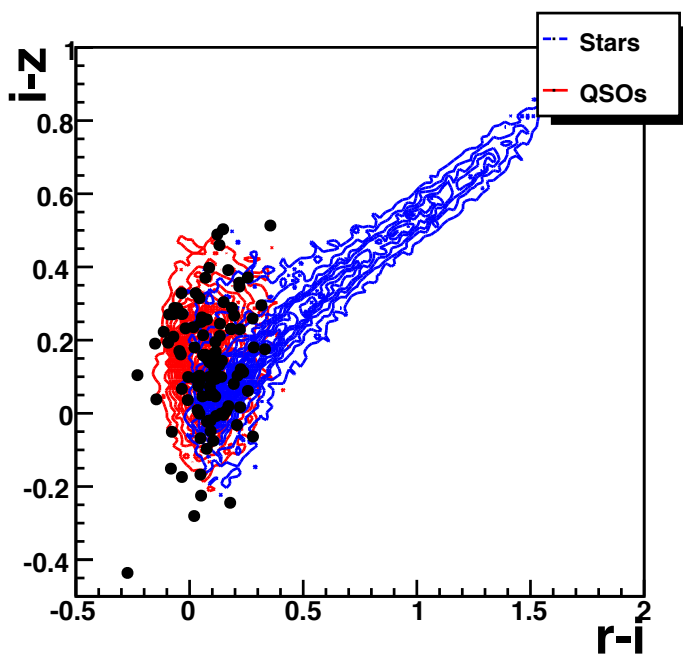
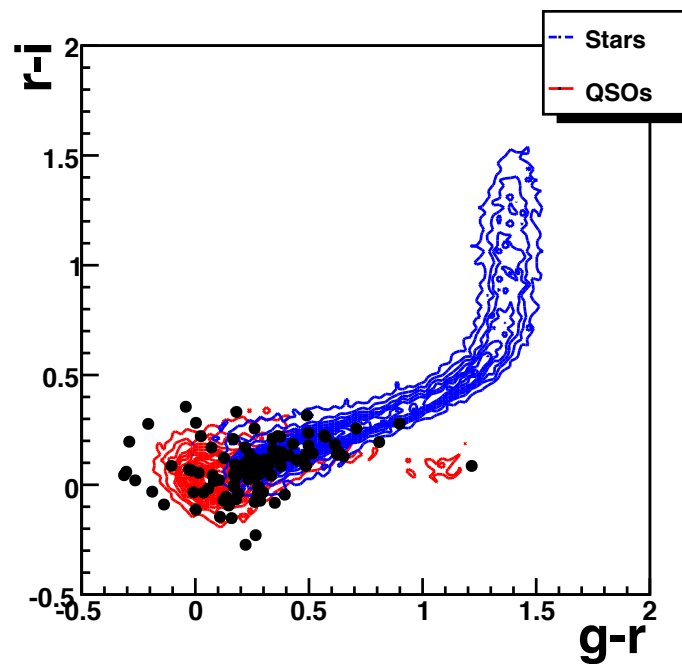
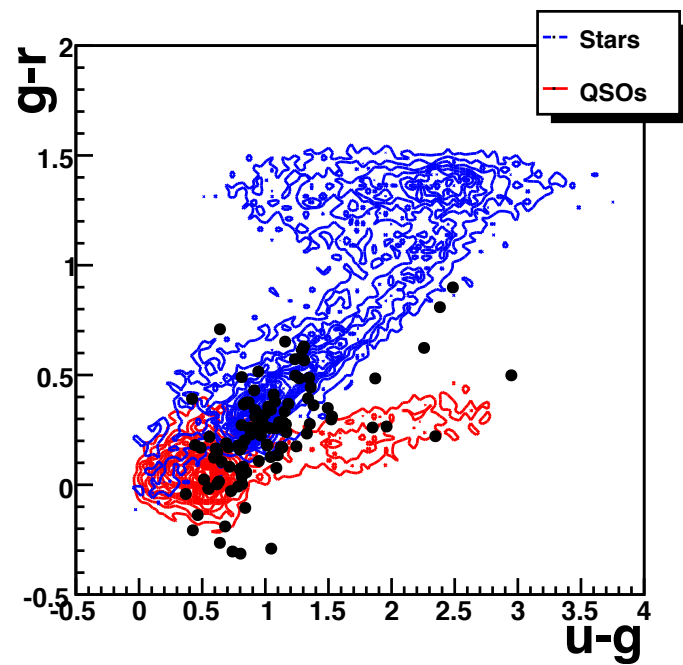
Stripe 82

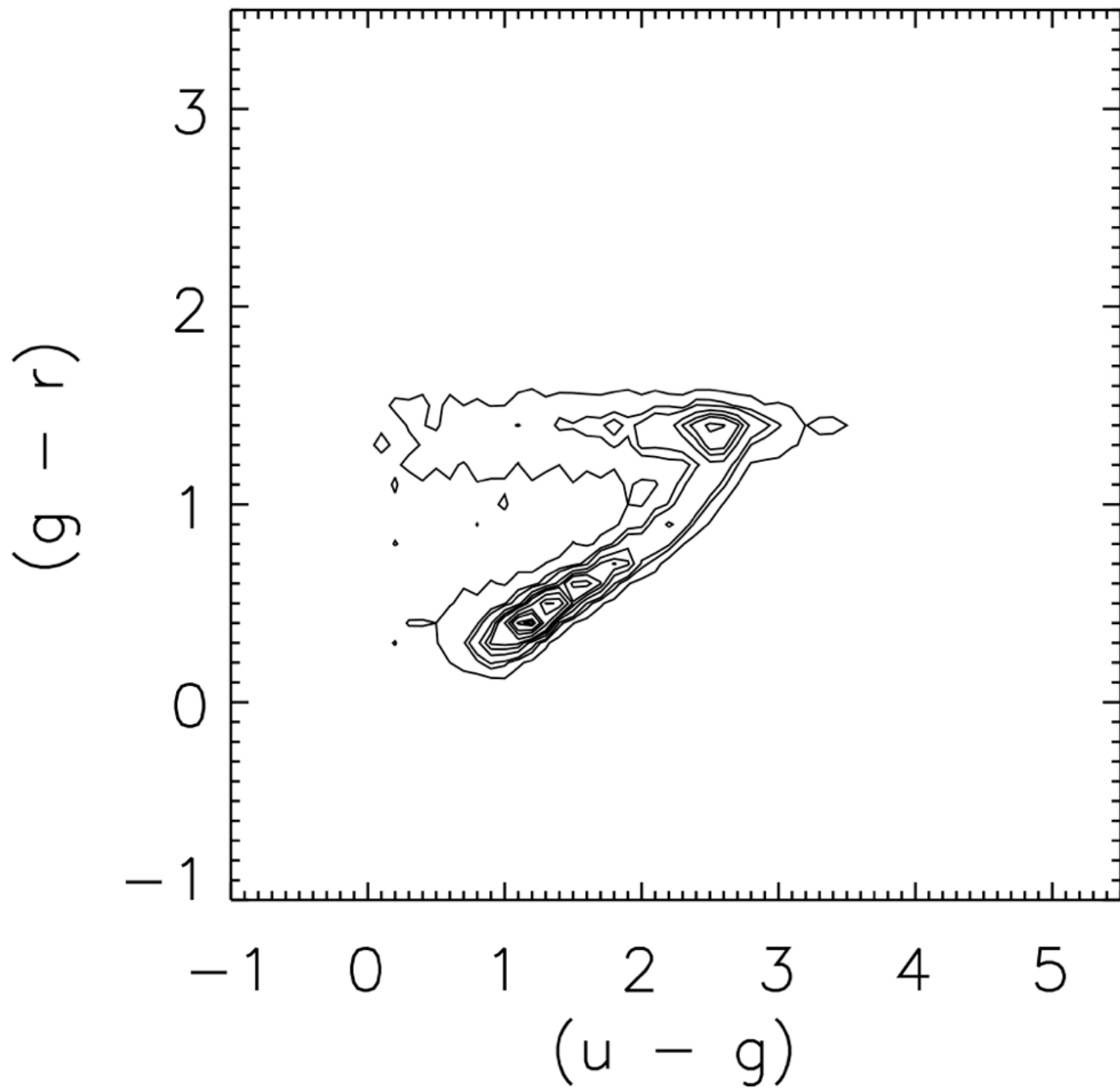
Variability

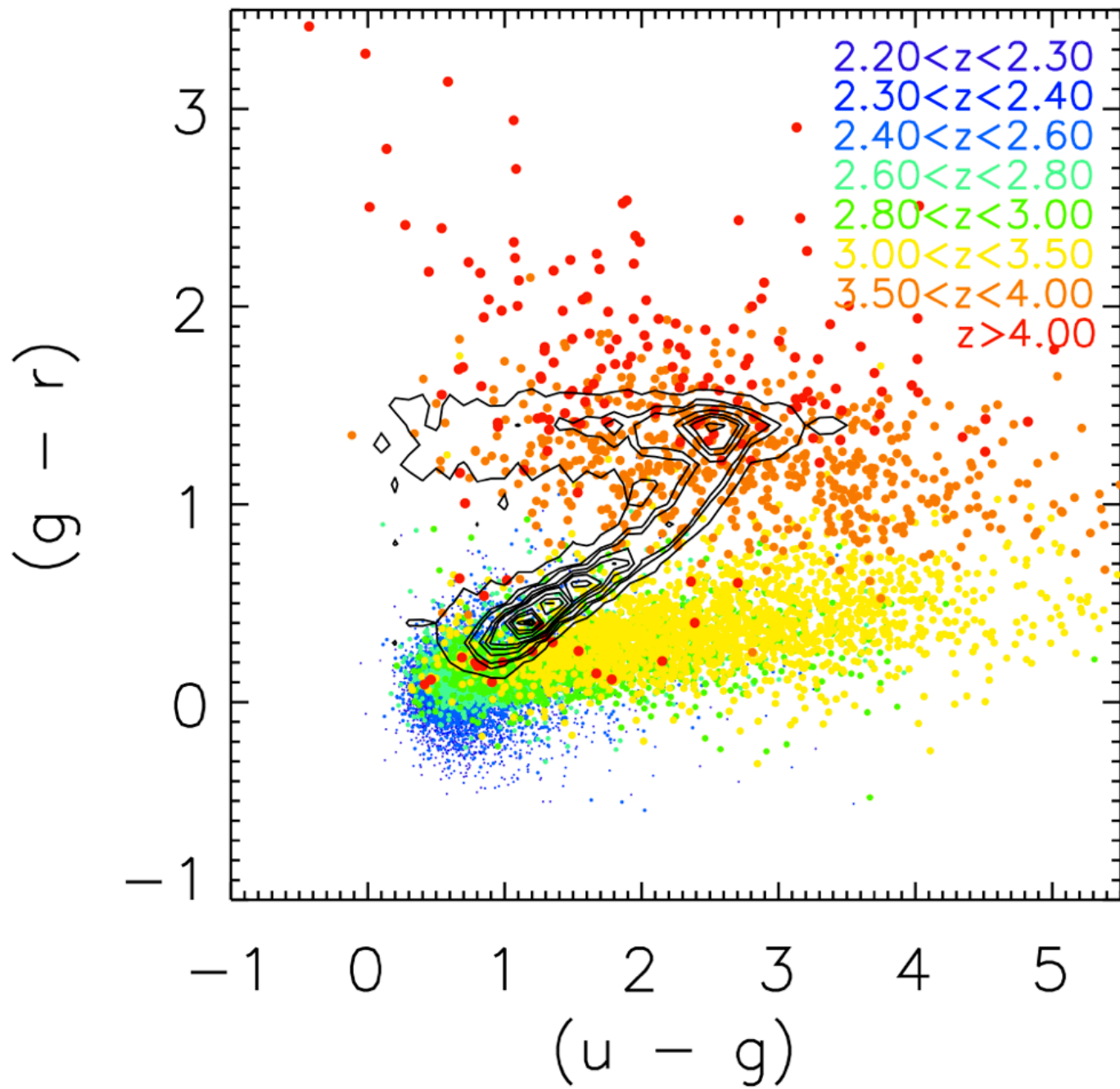
Palanque-Delabrouille, Yèche *et al.*

	Target	QSO	QSO >2.15	QSO deg ⁻²	QSO z>2.15 deg ⁻²
Known	1275	1200	1185	13.33	13.16
FIRST	87	56	48	0.62	0.53
BONUS	3255	2666	2101	29.62	23.34
BOSS QSOs	3451	2806	2227	31.17	24.74
TOTAL QSOs		3713	2425	41.25	26.94

20 plates, 90.0 deg²



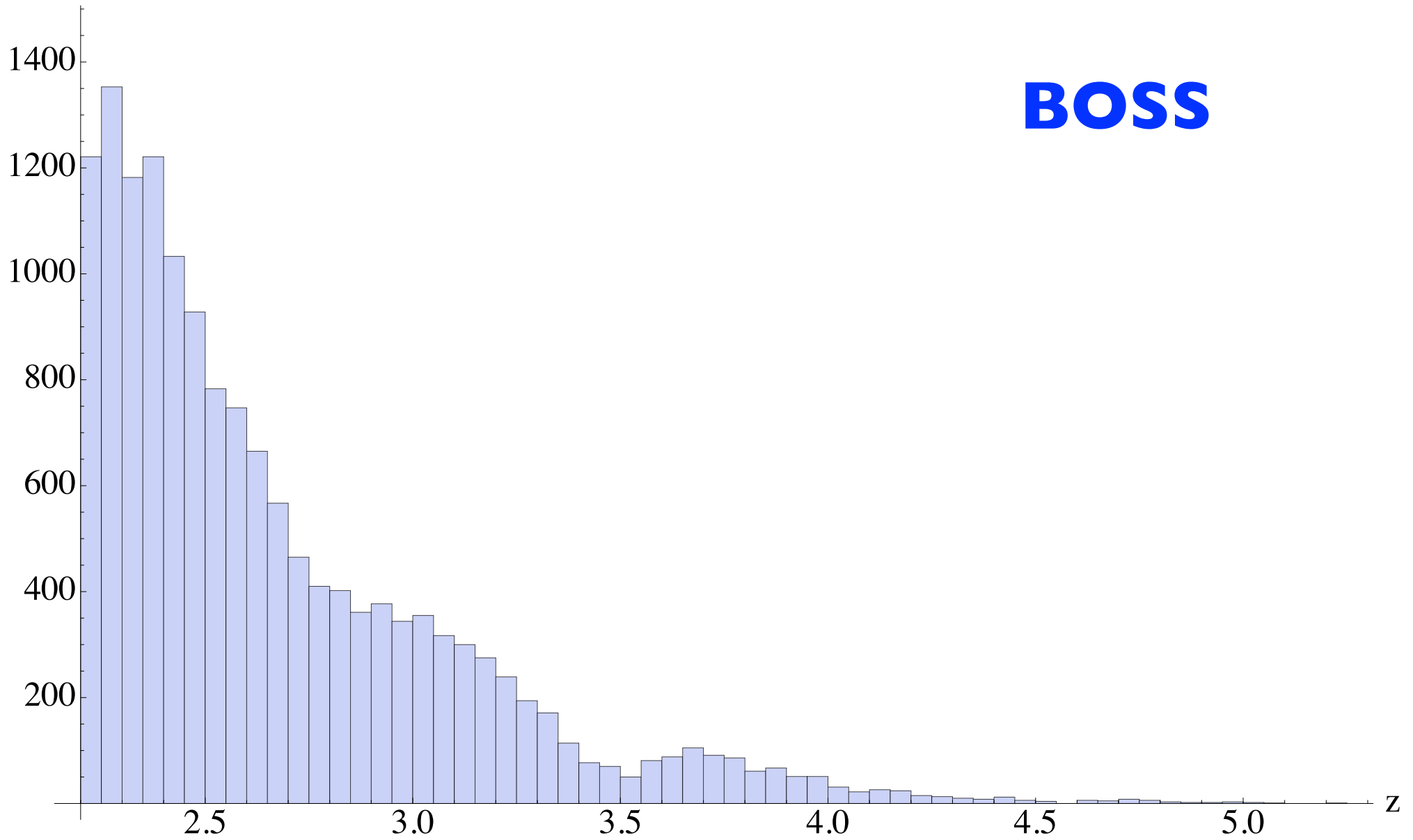




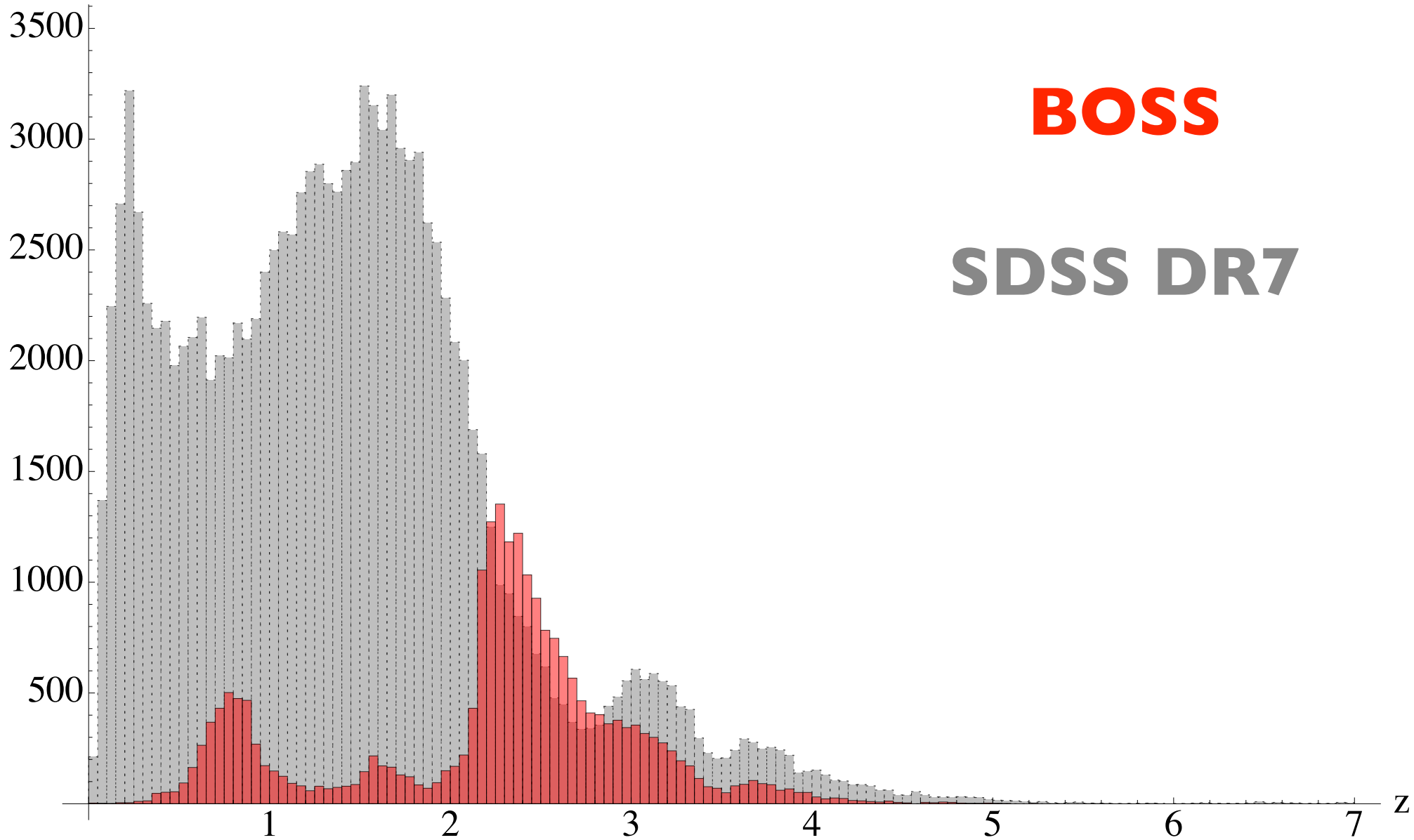
$N(z)$

QSOs $z > 2.2$

BOSS



Aubourg, Petitjean, Strauss *et al.*

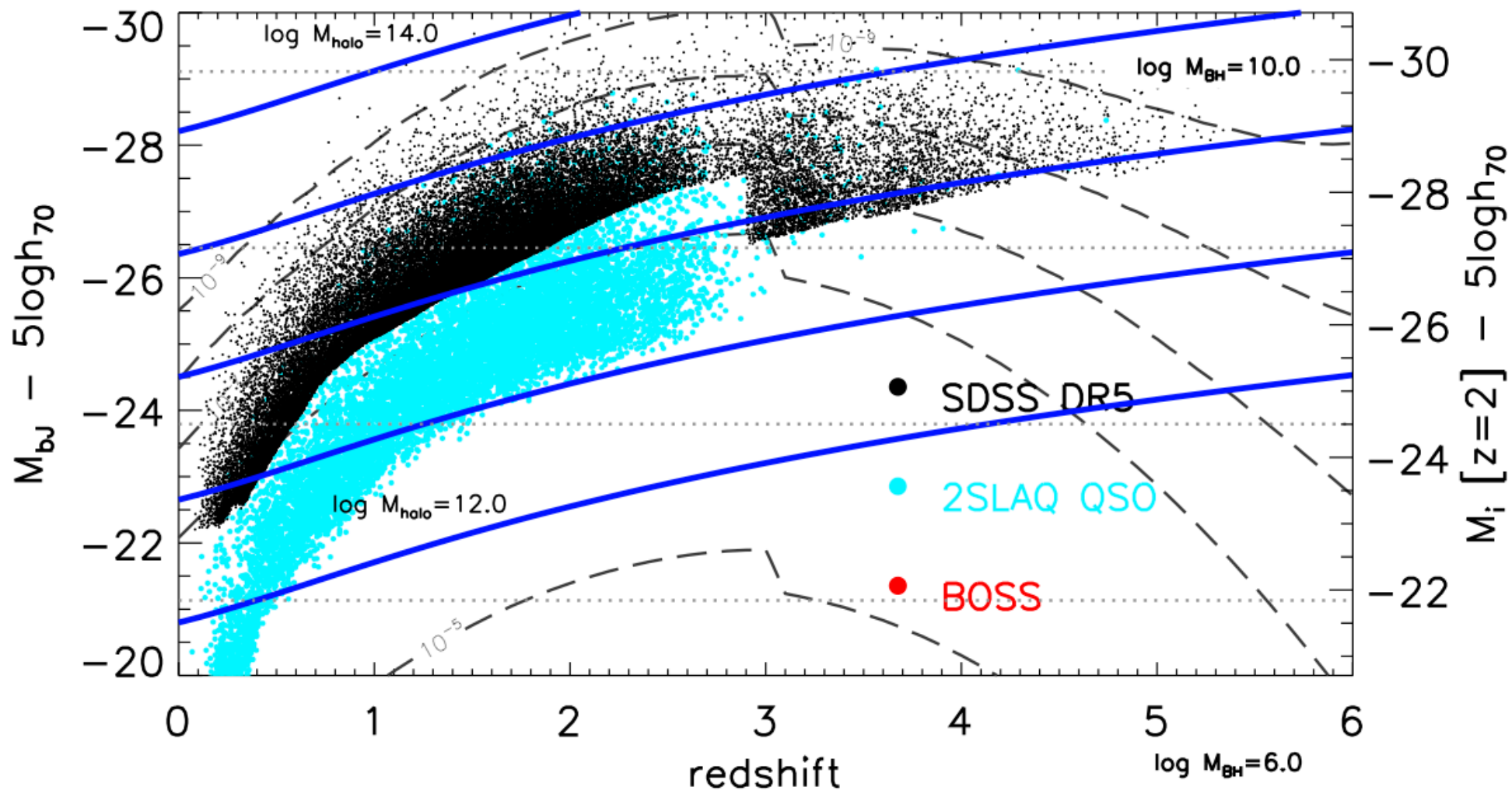


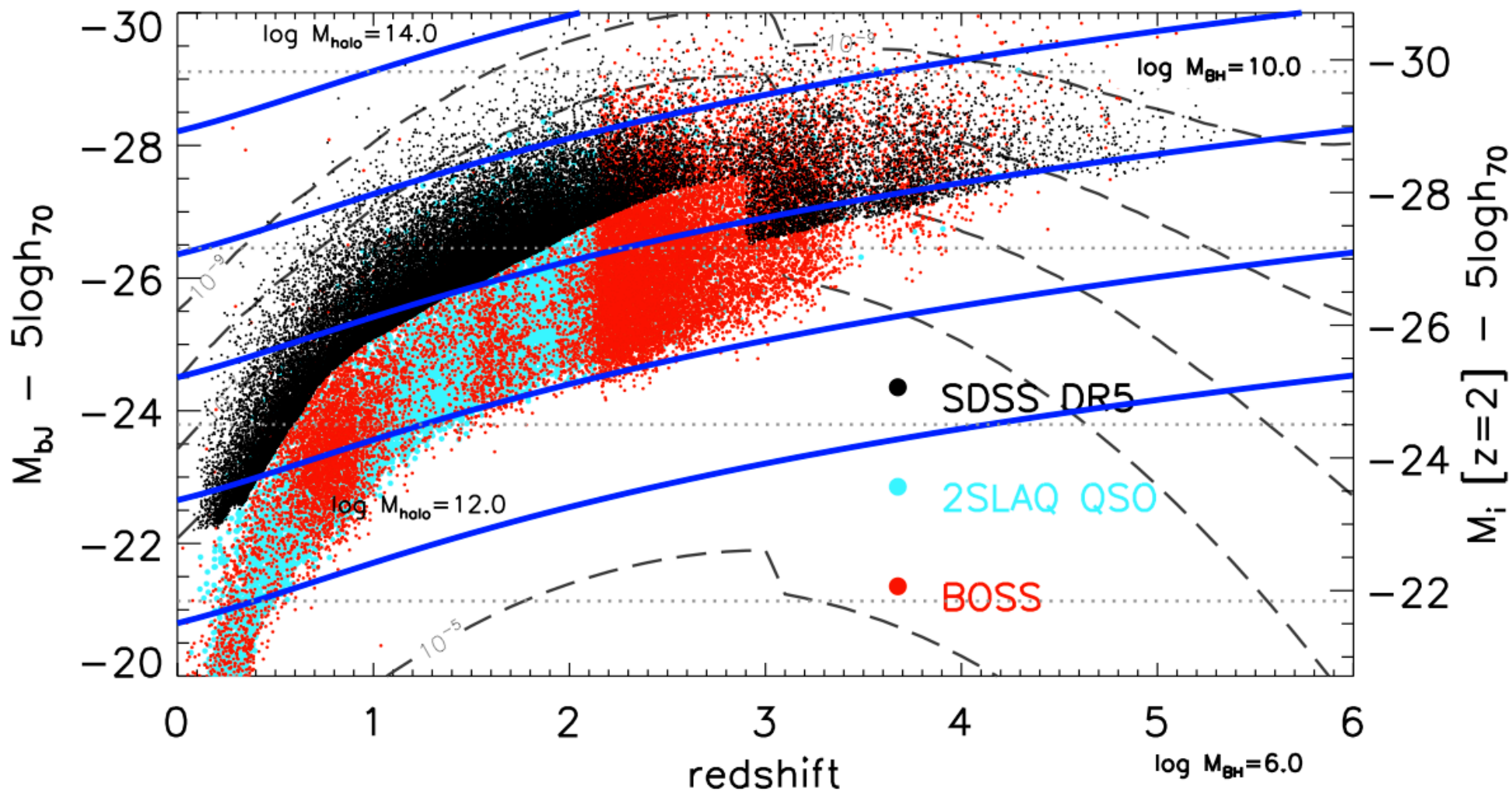
BOSS

SDSS DR7

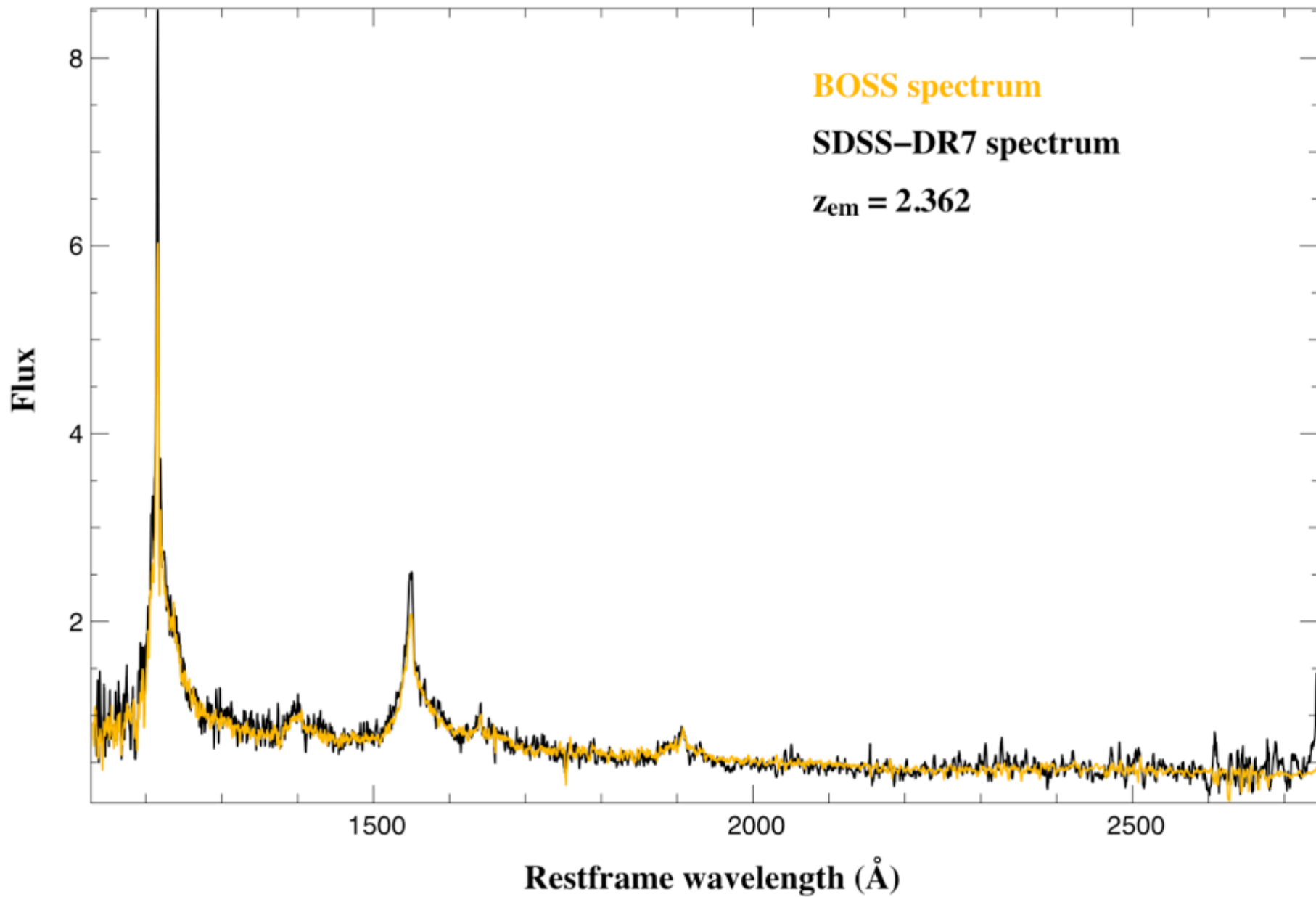
Aubourg, Petitjean, Strauss *et al.*

L - z

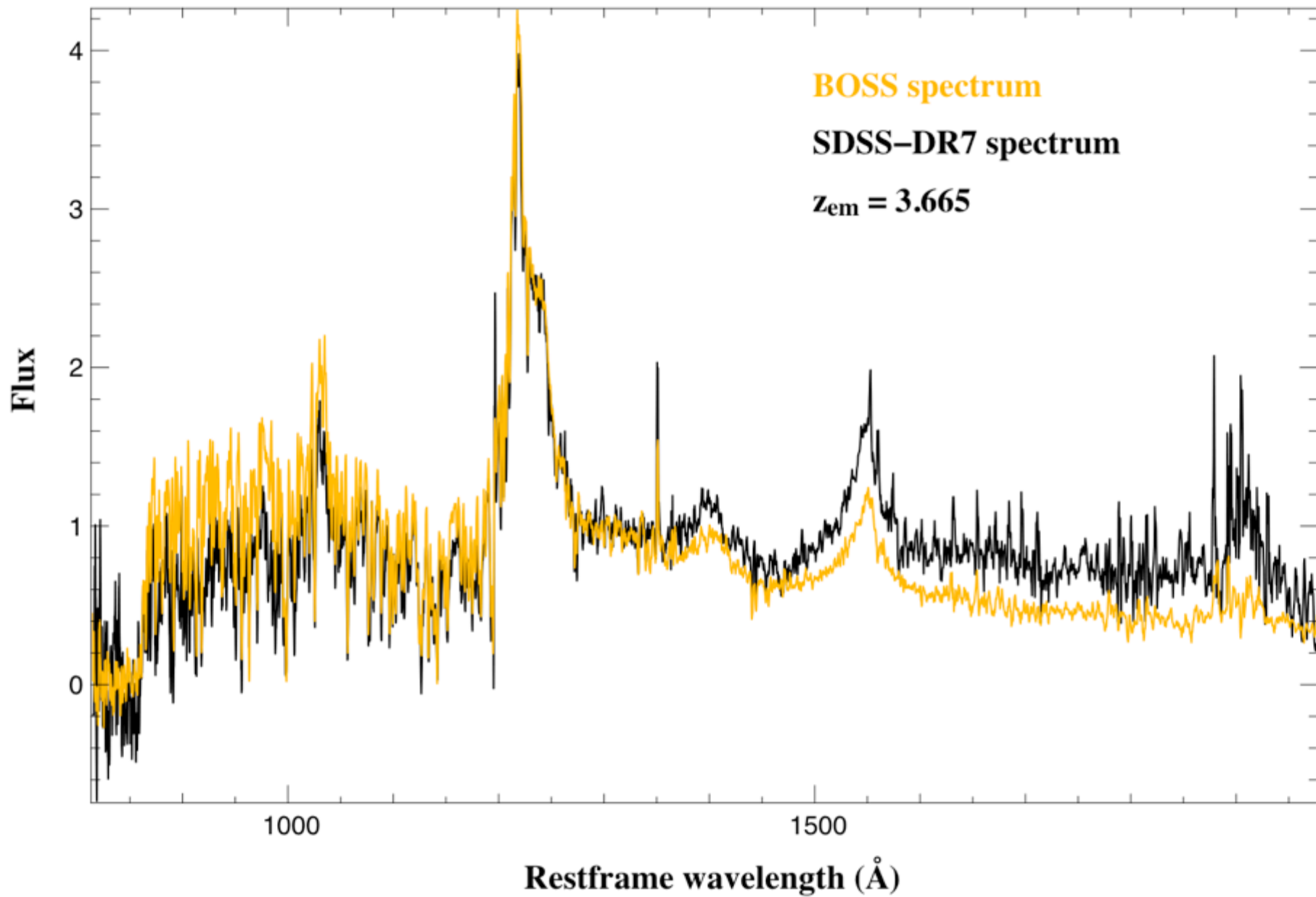




Spectra (!!)



Paris, Petitjean, *et al.*



Paris, Petitjean, *et al.*

Plate 3552 Fiber 736 MJD=55098

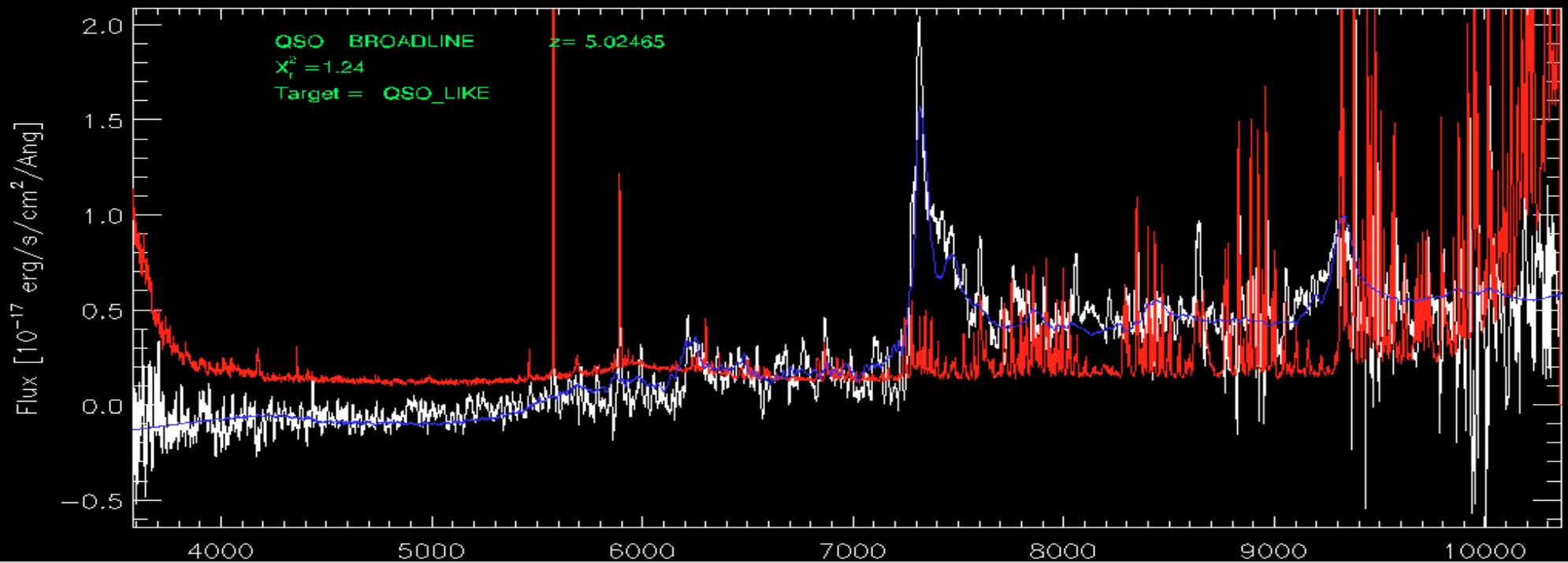
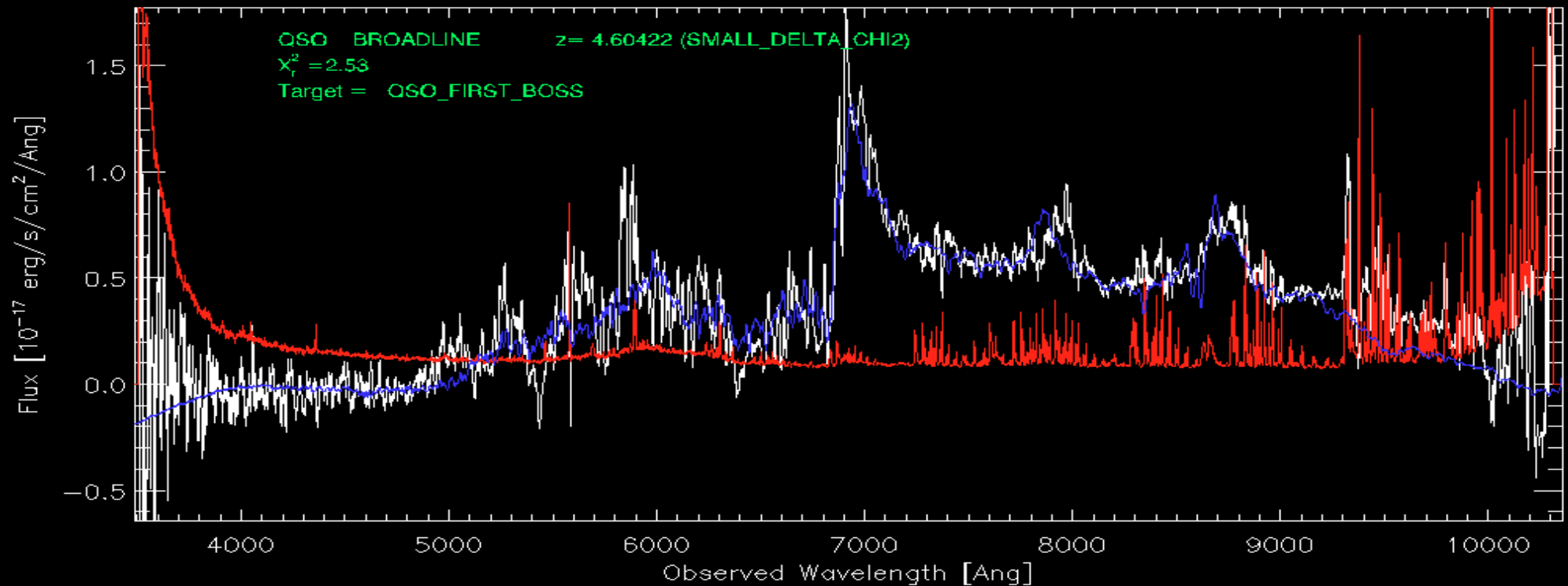
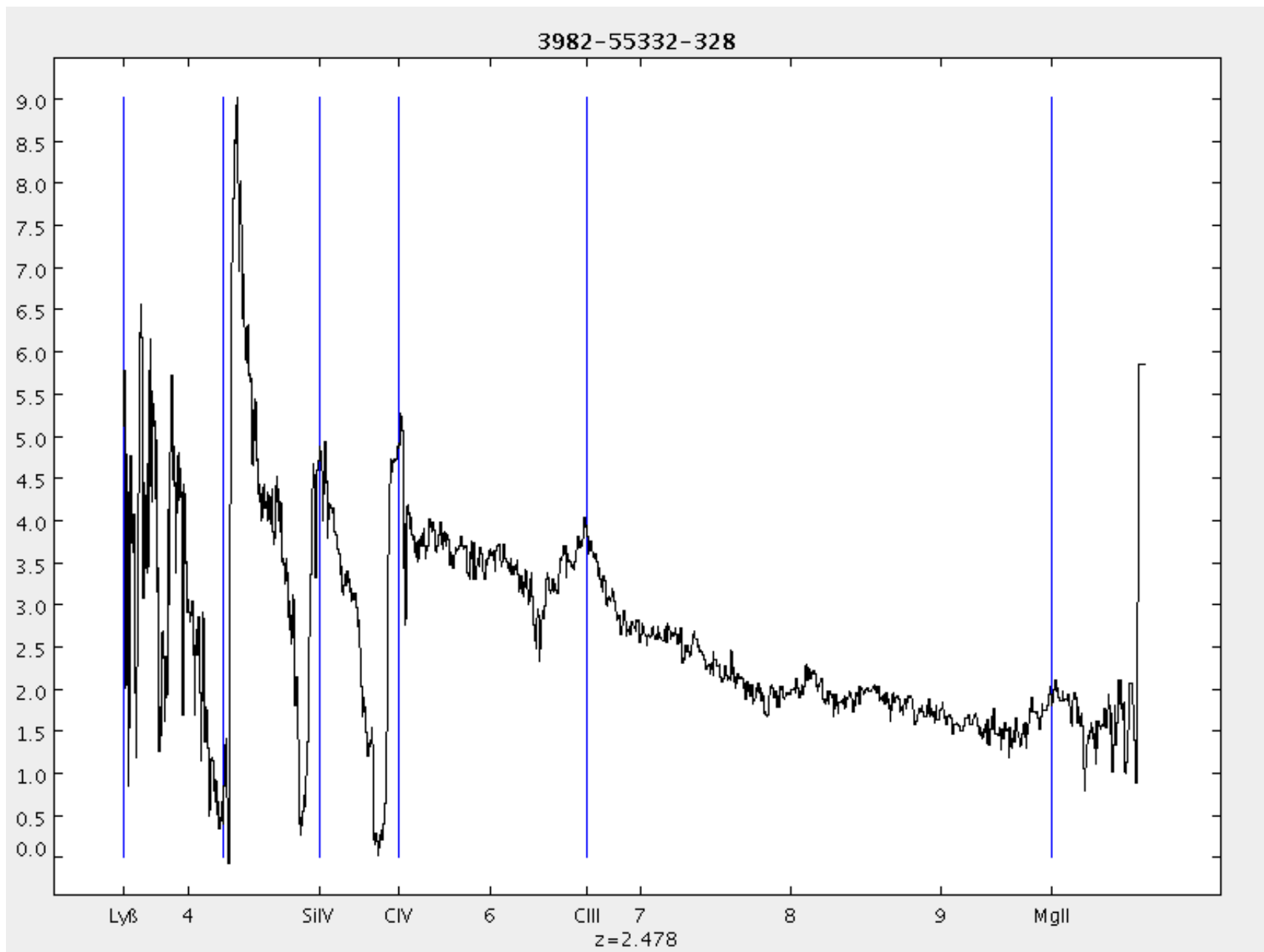
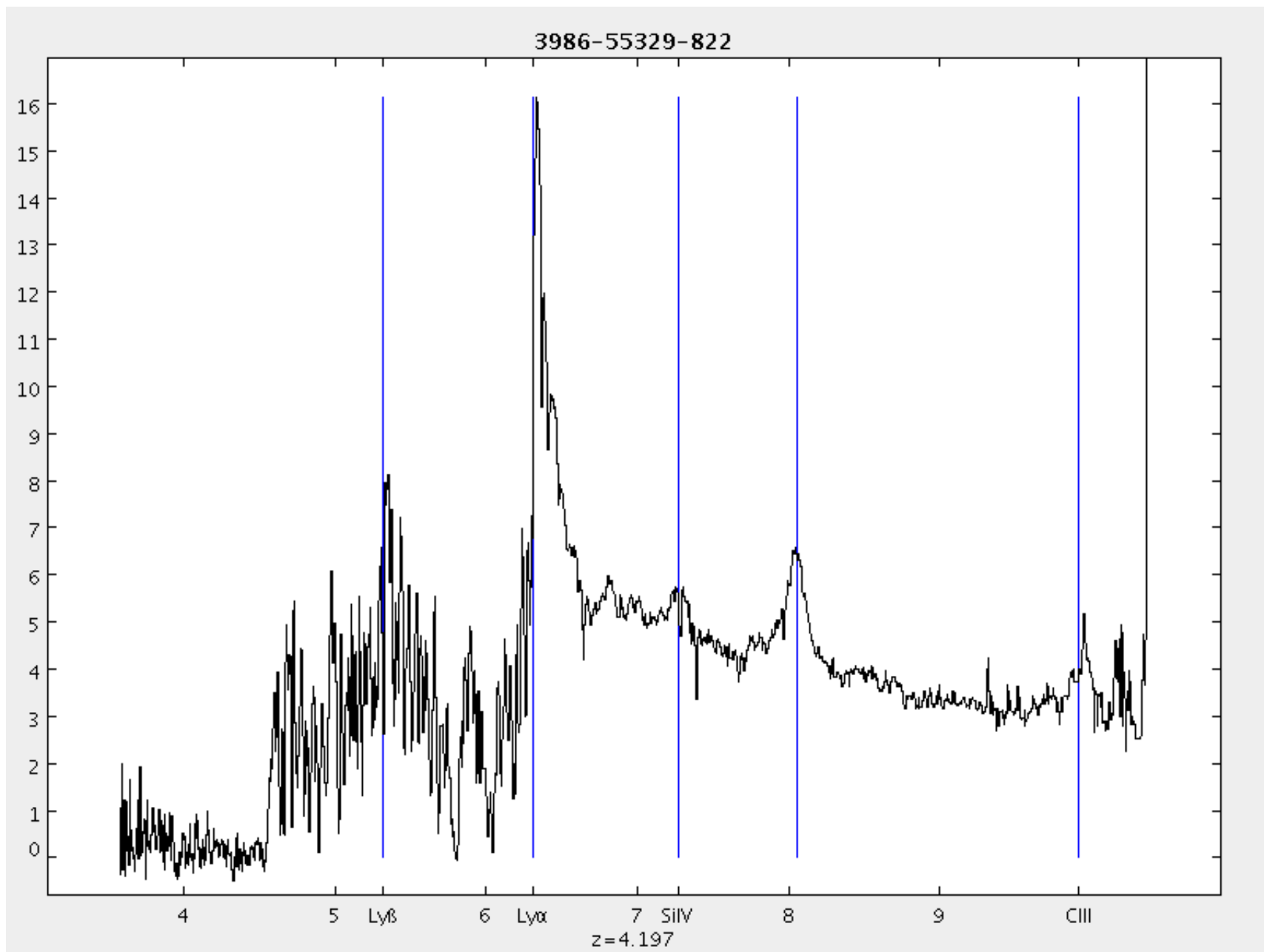


Plate 3861 Fiber 58 MJD=55274





Petitjean, Brandt *et al.*



Petitjean *et al.*


<https://trac.sdss3.org/wiki/BOSS/quasars>

BOSS/quasars - SDSS-III

sdss3.org <https://trac.sdss3.org/wiki/BOSS/quasars> brice menard

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