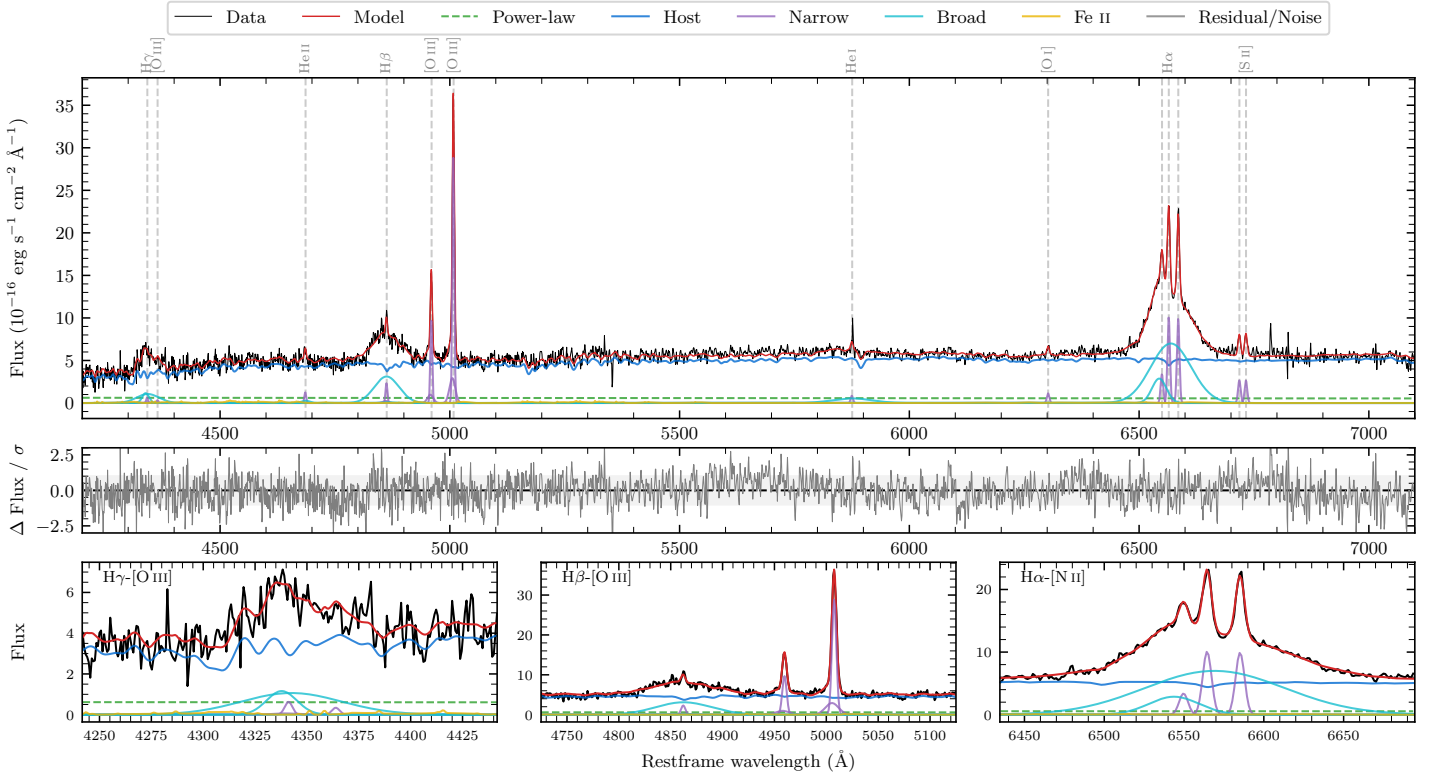
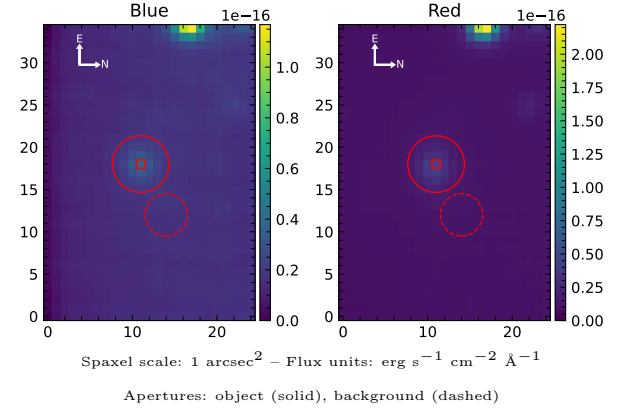


# 6dFGS gJ140125.6–491314

Spectrum ID	322999424_sp1	Spectrum type	Sy 1.5
Alt name	g1401256–491314	Quality flag	good
$z$	0.0723	AGN reference	6dFGS
RA, Dec	210.3565, –49.2206	MW $E(B - V)$	0.193
MJD	60379.76	Power law $\alpha_\nu$	$-1.75 \pm 0.21$
SNR/Å B/R	9.1/13.5	$\log L_{5100, \text{AGN}}$	$42.59 \pm 0.25$
Obs airmass	1.09	$\log H\beta_{\text{Br}}/[\text{O III}]$	$0.03 \pm 0.02$
SMSS ID	322999424	$\log M_{L5100}/M_\odot$	$7.46 \pm 0.12$
Neighbour	13.2", 322999423	$\log M_{\text{H}\alpha}/M_\odot$	$7.80 \pm 0.02$
SMSS $\langle r_6^{\text{ap}} \rangle$	$17.17 \pm 0.11$	$\log M_{\text{H}\beta}/M_\odot$	$7.75 \pm 0.04$
2MASS $K_{\text{ext}}$	$12.45 \pm 0.14$	$\log M_{[\text{O III}]} / M_\odot$	$7.88 \pm 0.03$



## Emission Line Measurements

Line	$\log L$ ( $\text{erg s}^{-1}$ )	FWHM ( $\text{km s}^{-1}$ )	$\sigma$ ( $\text{km s}^{-1}$ )	EW ( $\text{\AA}$ )
H $\gamma$ Narrow	$39.72 \pm 0.33$	$317 \pm 63$	$218 \pm 27$	$6.70 \pm 3.77$
<b>H<math>\gamma</math> Broad</b>	<b><math>41.07 \pm 0.05</math></b>	<b><math>1897 \pm 360</math></b>	<b><math>1161 \pm 70</math></b>	<b><math>149.78 \pm 8.37</math></b>
[O III] 4364	$39.34 \pm 0.40$	$301 \pm 63$	$127 \pm 25$	$2.79 \pm 2.26$
He II Narrow	$39.93 \pm 0.15$	$301 \pm 63$	$127 \pm 25$	$11.19 \pm 1.95$
<b>He II Broad</b>	<b><math>39.96 \pm 0.30</math></b>	<b><math>1348 \pm 75</math></b>	<b><math>572 \pm 31</math></b>	<b><math>11.54 \pm 4.32</math></b>
H $\beta$ Narrow	$40.33 \pm 0.07$	$317 \pm 63$	$218 \pm 27$	$28.23 \pm 3.50$
<b>H<math>\beta</math> Broad</b>	<b><math>41.47 \pm 0.02</math></b>	<b><math>3798 \pm 101</math></b>	<b><math>1436 \pm 30</math></b>	<b><math>383.57 \pm 7.72</math></b>
[O III] 5007	$41.44 \pm 0.01$	$317 \pm 63$	$218 \pm 27$	$363.05 \pm 3.95$
He I Narrow	$39.87 \pm 0.23$	$301 \pm 63$	$127 \pm 25$	$10.12 \pm 2.96$
<b>He I Broad</b>	<b><math>40.90 \pm 0.06</math></b>	<b><math>5118 \pm 102</math></b>	<b><math>2173 \pm 43</math></b>	<b><math>110.03 \pm 8.64</math></b>
[O I] 6300	$40.02 \pm 0.09$	$301 \pm 63$	$127 \pm 25$	$14.62 \pm 1.90$
H $\alpha$ Narrow	$40.98 \pm 0.02$	$301 \pm 63$	$127 \pm 25$	$136.54 \pm 2.37$
<b>H<math>\alpha</math> Broad</b>	<b><math>42.08 \pm 0.01</math></b>	<b><math>4167 \pm 83</math></b>	<b><math>1659 \pm 25</math></b>	<b><math>1720.33 \pm 9.78</math></b>
[N II] 6585	$40.98 \pm 0.01$	$301 \pm 63$	$127 \pm 25$	$134.87 \pm 2.34$
[S II] 6718	$40.41 \pm 0.04$	$301 \pm 63$	$127 \pm 25$	$36.93 \pm 2.28$
[S II] 6732	$40.41 \pm 0.04$	$301 \pm 63$	$127 \pm 25$	$36.91 \pm 2.15$

## Emission Summary

H $\alpha$ broad SNR	15.30
H $\beta$ broad SNR	5.54
H $\gamma$ broad SNR	3.75
AGN frac	0.12
Host frac	0.88
$\log L_{5100, \text{Host}}$	43.46
Fe II/H $\beta$	0.15
Fe II/[O III]	0.16

## Quality Flags

spurious_hab/hbb	0/0
15100	2
balmer	0
balmer_snr	0
hb_width	0
balmer_width	1