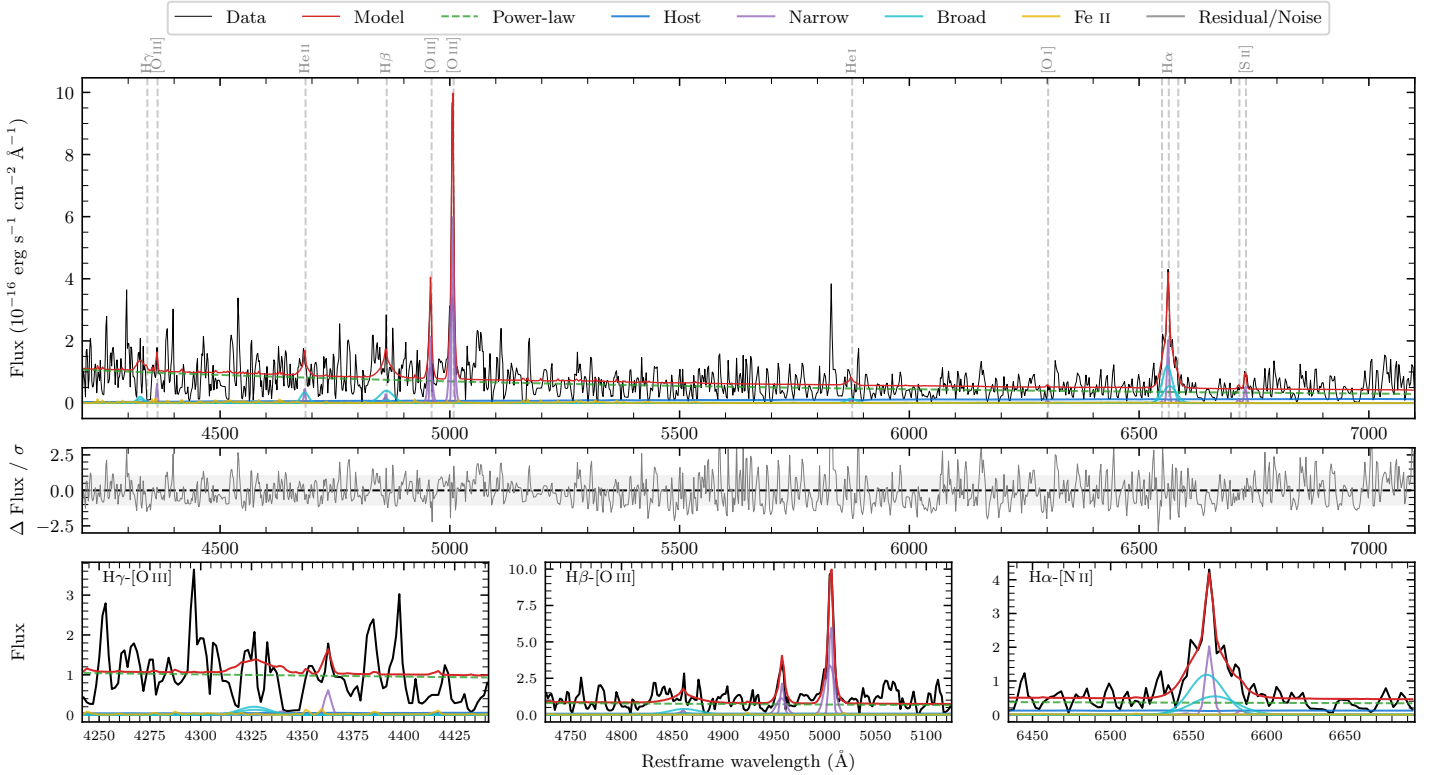
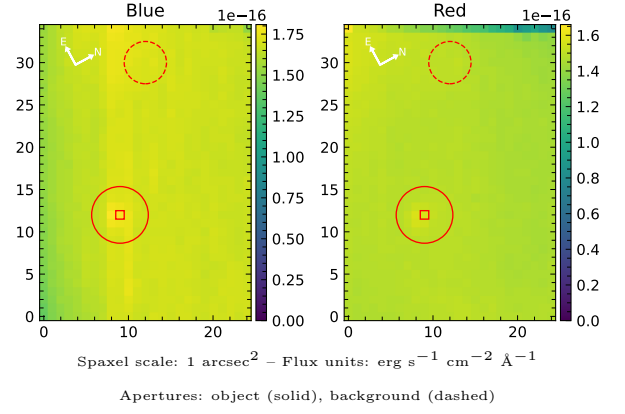


# 6dFGS gJ235457.7–054017

Spectrum ID	8609351_sp1	Spectrum type	Bad
Alt name	g2354577–054017	Quality flag	bad_all
$z$	0.0806	AGN reference	6dFGS
RA, Dec	358.7402, –5.6713	MW $E(B - V)$	0.026
MJD	59397.8	Power law $\alpha_\nu$	$0.48 \pm 0.02$
SNR/Å B/R	1.0/1.2	$\log L_{5100, \text{AGN}}$	$42.74 \pm 0.03$
Obs airmass	1.11	$\log H\beta_{\text{Br}}/[\text{O III}]$	$-0.58 \pm 0.22$
SMSS ID	8609351	$\log M_{L5100}/M_\odot$	$6.93 \pm 0.11$
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	$6.10 \pm 0.08$
SMSS $\langle r_6''_{\text{ap}} \rangle$	$17.99 \pm 0.06$	$\log M_{\text{H}\beta}/M_\odot$	$6.73 \pm 0.16$
2MASS $K_{\text{ext}}$	nan $\pm$ nan	$\log M_{[\text{O III}]} / M_\odot$	$7.13 \pm 0.11$



## Emission Line Measurements

Line	$\log L$ (erg s <sup>-1</sup> )	FWHM (km s <sup>-1</sup> )	$\sigma$ (km s <sup>-1</sup> )	EW (Å)
H $\gamma$ Narrow	–	–	–	–
<b>H<math>\gamma</math> Broad</b>	–	–	–	–
[O III] 4364	$39.62 \pm 0.35$	$265 \pm 62$	$106 \pm 25$	$2.64 \pm 2.02$
He II Narrow	$39.56 \pm 0.40$	$265 \pm 62$	$106 \pm 25$	$2.79 \pm 2.12$
<b>He II Broad</b>	<b><math>40.09 \pm 0.37</math></b>	<b><math>1236 \pm 62</math></b>	<b><math>523 \pm 25</math></b>	<b><math>9.29 \pm 4.93</math></b>
H $\beta$ Narrow	$39.76 \pm 0.45$	$348 \pm 66$	$235 \pm 26$	$4.79 \pm 4.09$
<b>H<math>\beta</math> Broad</b>	<b><math>40.50 \pm 0.22</math></b>	<b><math>1934 \pm 249</math></b>	<b><math>728 \pm 40</math></b>	<b><math>24.98 \pm 8.29</math></b>
[O III] 5007	$41.08 \pm 0.02$	$348 \pm 66$	$235 \pm 26$	$108.78 \pm 4.49$
He I Narrow	–	–	–	–
<b>He I Broad</b>	<b><math>39.80 \pm 0.41</math></b>	<b><math>1267 \pm 62</math></b>	<b><math>537 \pm 25</math></b>	<b><math>8.46 \pm 5.08</math></b>
[O I] 6300	–	–	–	–
H $\alpha$ Narrow	$40.31 \pm 0.06$	$265 \pm 62$	$106 \pm 25$	$35.85 \pm 2.22$
<b>H<math>\alpha</math> Broad</b>	<b><math>40.96 \pm 0.04</math></b>	<b><math>1294 \pm 94</math></b>	<b><math>481 \pm 34</math></b>	<b><math>158.92 \pm 6.47</math></b>
[N II] 6585	$39.10 \pm 0.51$	$265 \pm 62$	$106 \pm 25$	$2.23 \pm 2.18$
[S II] 6718	$39.15 \pm 0.48$	$265 \pm 62$	$106 \pm 25$	$2.61 \pm 2.57$
[S II] 6732	$39.77 \pm 0.20$	$265 \pm 62$	$106 \pm 25$	$11.10 \pm 2.77$

## Emission Summary

H $\alpha$ broad SNR	3.14
H $\beta$ broad SNR	1.01
H $\gamma$ broad SNR	0.78
AGN frac	0.90
Host frac	0.09
$\log L_{5100, \text{Host}}$	41.71
Fe II/H $\beta$	–
Fe II/[O III]	–

## Quality Flags

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