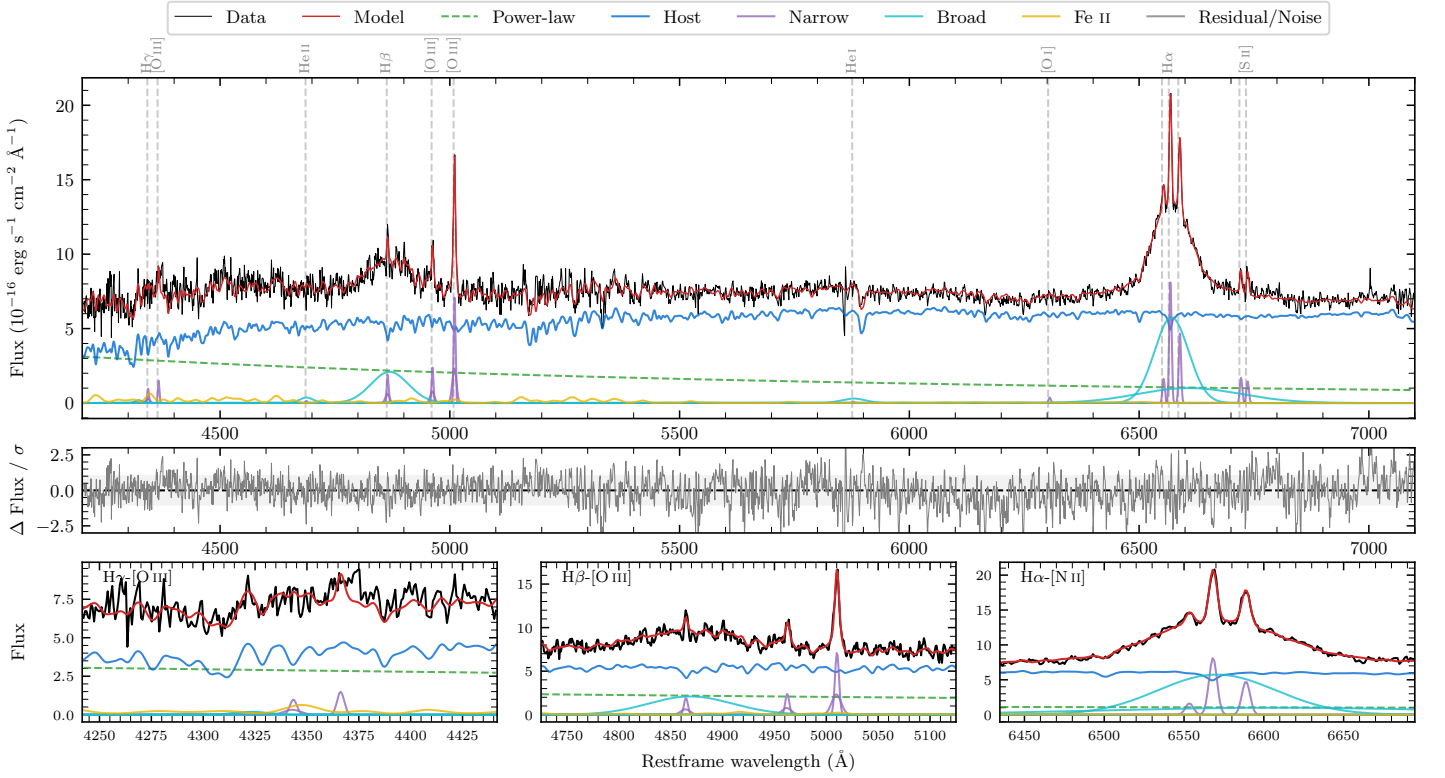
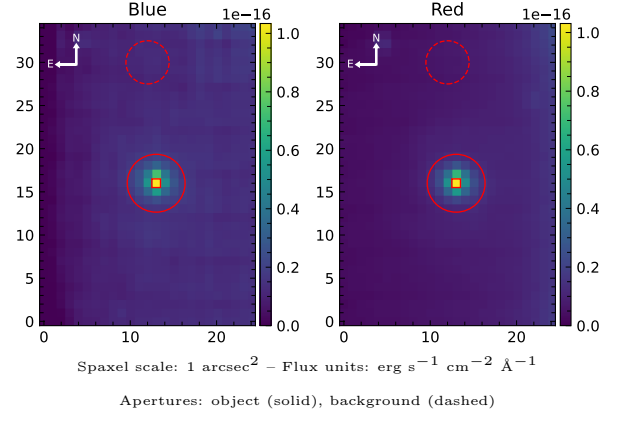


# 6dFGS gJ104745.7–375932

Spectrum ID	83561935_sp1	Spectrum type	Sy 1.2
Alt name	g1047457–375932	Quality flag	good
$z$	0.0758	AGN reference	6dFGS
RA, Dec	161.9405, –37.9922	MW $E(B - V)$	0.042
MJD	60018.54	Power law $\alpha_\nu$	$0.43 \pm 0.07$
SNR/ $\text{\AA}$ B/R	11.8/26.0	$\log L_{5100, \text{AGN}}$	$43.14 \pm 0.02$
Obs airmass	1.01	$\log H\beta_{\text{Br}}/[\text{O III}]$	$0.55 \pm 0.03$
SMSS ID	83561935	$\log M_{L5100}/M_\odot$	$8.05 \pm 0.03$
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	$7.84 \pm 0.01$
SMSS $\langle r_6'' \text{ap} \rangle$	$16.55 \pm 0.19$	$\log M_{\text{H}\beta}/M_\odot$	$8.13 \pm 0.04$
2MASS $K_{\text{ext}}$	$12.57 \pm 0.12$	$\log M_{[\text{O III}]} / M_\odot$	$8.01 \pm 0.04$



## 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	$40.05 \pm 0.18$	$321 \pm 64$	$199 \pm 28$	$2.72 \pm 0.85$
<b>H<math>\gamma</math> Broad</b>	—	—	—	—
[O III] 4364	$39.98 \pm 0.17$	$278 \pm 63$	$115 \pm 25$	$2.38 \pm 0.58$
He II Narrow	—	—	—	—
<b>He II Broad</b>	<b><math>40.32 \pm 0.21</math></b>	<b><math>2250 \pm 63</math></b>	<b><math>955 \pm 25</math></b>	<b><math>6.24 \pm 1.70</math></b>
H $\beta$ Narrow	$40.38 \pm 0.09$	$321 \pm 64$	$199 \pm 28$	$7.82 \pm 0.97$
<b>H<math>\beta</math> Broad</b>	<b><math>41.51 \pm 0.02</math></b>	<b><math>5733 \pm 156</math></b>	<b><math>2167 \pm 25</math></b>	<b><math>106.31 \pm 3.16</math></b>
[O III] 5007	$40.96 \pm 0.02$	$321 \pm 64$	$199 \pm 28$	$32.22 \pm 1.11$
He I Narrow	—	—	—	—
<b>He I Broad</b>	<b><math>40.47 \pm 0.09</math></b>	<b><math>3116 \pm 63</math></b>	<b><math>1323 \pm 25</math></b>	<b><math>15.35 \pm 1.74</math></b>
[O I] 6300	$39.53 \pm 0.20$	$278 \pm 63$	$115 \pm 25$	$2.09 \pm 0.55$
H $\alpha$ Narrow	$40.89 \pm 0.01$	$278 \pm 63$	$115 \pm 25$	$52.60 \pm 0.74$
<b>H<math>\alpha</math> Broad</b>	<b><math>42.09 \pm 0.01</math></b>	<b><math>4393 \pm 69</math></b>	<b><math>2155 \pm 37</math></b>	<b><math>838.79 \pm 5.68</math></b>
[N II] 6585	$40.66 \pm 0.02$	$278 \pm 63$	$115 \pm 25$	$31.17 \pm 0.71$
[S II] 6718	$40.22 \pm 0.05$	$278 \pm 63$	$115 \pm 25$	$11.84 \pm 0.82$
[S II] 6732	$40.16 \pm 0.07$	$278 \pm 63$	$115 \pm 25$	$10.39 \pm 0.97$

## Emission Summary

H $\alpha$ broad SNR	11.27
H $\beta$ broad SNR	3.73
H $\gamma$ broad SNR	0.79
AGN frac	0.27
Host frac	0.73
$\log L_{5100, \text{Host}}$	43.58
Fe II/H $\beta$	0.35
Fe II/[O III]	1.24

## Quality Flags

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