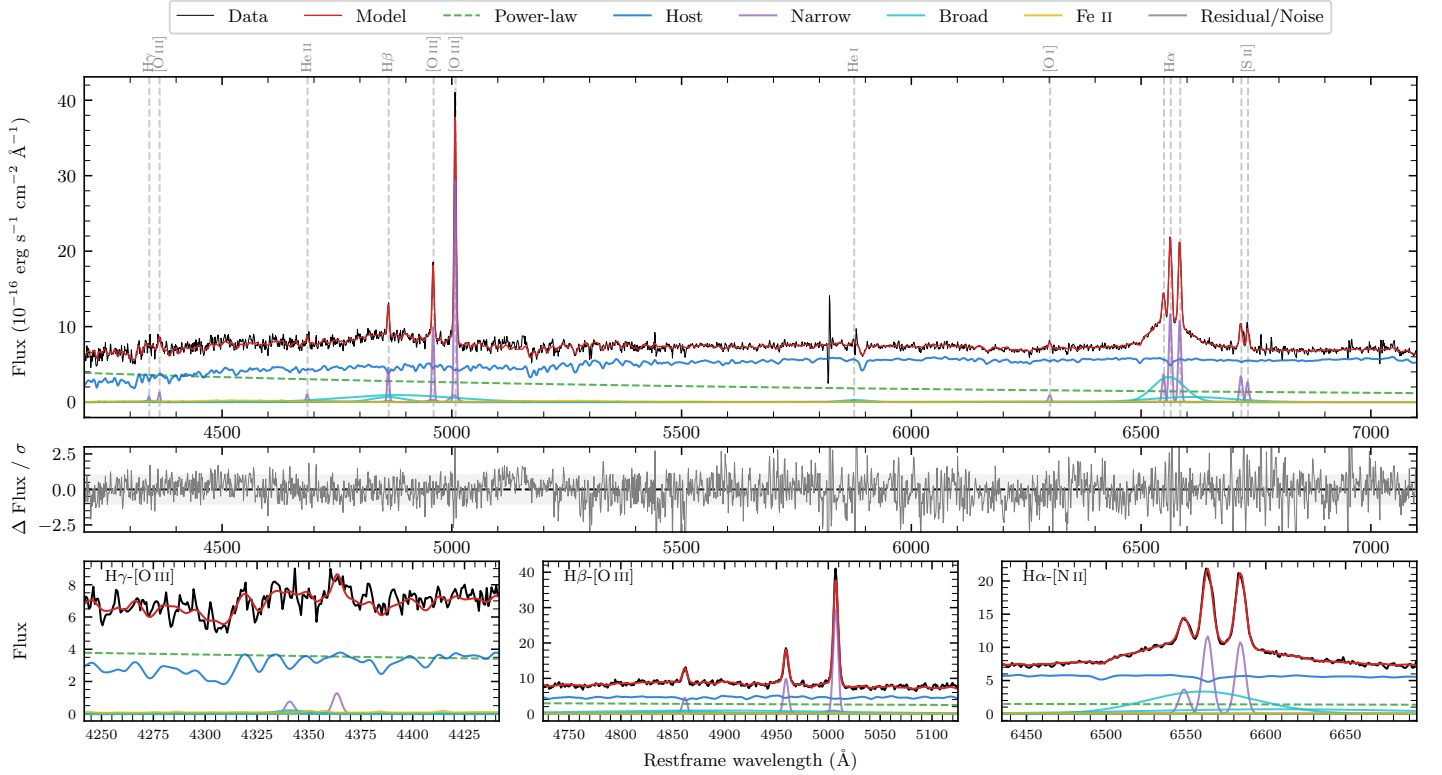
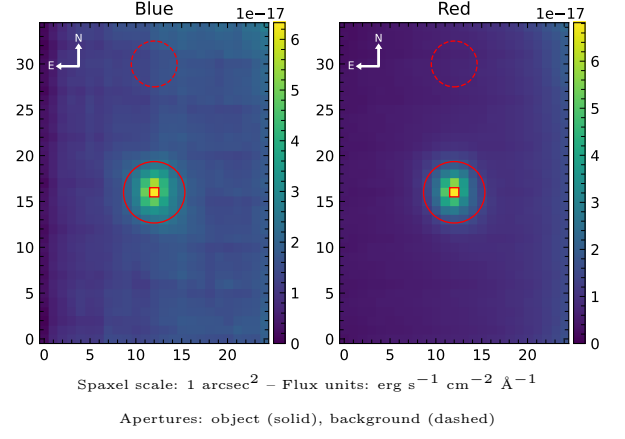


# 6dFGS gJ061834.3–413916

Spectrum ID	28386705_sp1	Spectrum type	Sy 1.8
Alt name	g0618343–413916	Quality flag	good
$z$	0.0823	AGN reference	6dFGS
RA, Dec	94.6429, –41.6545	MW $E(B - V)$	0.050
MJD	60021.41	Power law $\alpha_\nu$	$0.25 \pm 0.18$
SNR/ $\text{\AA}$ B/R	12.5/27.1	$\log L_{5100, \text{AGN}}$	$43.33 \pm 0.05$
Obs airmass	1.04	$\log H\beta_{\text{Br}}/[\text{O III}]$	$-0.51 \pm 0.44$
SMSS ID	28386705	$\log M_{L5100}/M_\odot$	$8.05 \pm 0.03$
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	$7.67 \pm 0.02$
SMSS $\langle r_6''_{\text{ap}} \rangle$	$16.49 \pm 0.02$	$\log M_{\text{H}\beta}/M_\odot$	$7.83 \pm 0.20$
2MASS $K_{\text{ext}}$	$12.76 \pm 0.11$	$\log M_{[\text{O III}]} / M_\odot$	$8.21 \pm 0.01$



## 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	$39.90 \pm 0.31$	$340 \pm 63$	$212 \pm 33$	$1.31 \pm 0.84$
<b>H<math>\gamma</math> Broad</b>	–	–	–	–
[O III] 4364	$40.08 \pm 0.18$	$334 \pm 63$	$141 \pm 25$	$2.01 \pm 0.50$
He II Narrow	$40.01 \pm 0.17$	$334 \pm 63$	$141 \pm 25$	$2.01 \pm 0.49$
<b>He II Broad</b>	–	–	–	–
H $\beta$ Narrow	$40.72 \pm 0.04$	$340 \pm 63$	$212 \pm 33$	$11.28 \pm 0.97$
<b>H<math>\beta</math> Broad</b>	$41.04^{+0.76}_{-0.11}$	<b><math>5218 \pm 48</math></b>	<b><math>1944 \pm 27</math></b>	<b><math>23.13 \pm 2.22</math></b>
[O III] 5007	$41.55 \pm 0.01$	$340 \pm 63$	$212 \pm 33$	$80.30 \pm 1.23$
He I Narrow	$39.57 \pm 0.25$	$334 \pm 63$	$141 \pm 25$	$1.20 \pm 0.45$
<b>He I Broad</b>	<b><math>40.55 \pm 0.09</math></b>	<b><math>3279 \pm 68</math></b>	<b><math>1392 \pm 27</math></b>	<b><math>11.68 \pm 1.30</math></b>
[O I] 6300	$40.09 \pm 0.07$	$334 \pm 63$	$141 \pm 25$	$4.70 \pm 0.45$
H $\alpha$ Narrow	$41.22 \pm 0.01$	$334 \pm 63$	$141 \pm 25$	$69.07 \pm 0.56$
<b>H<math>\alpha</math> Broad</b>	<b><math>41.90 \pm 0.01</math></b>	<b><math>4115 \pm 78</math></b>	<b><math>1947 \pm 43</math></b>	<b><math>335.31 \pm 3.08</math></b>
[N II] 6585	$41.18 \pm 0.01$	$334 \pm 63$	$141 \pm 25$	$64.51 \pm 0.55$
[S II] 6718	$40.70 \pm 0.02$	$334 \pm 63$	$141 \pm 25$	$22.02 \pm 0.77$
[S II] 6732	$40.59 \pm 0.03$	$334 \pm 63$	$141 \pm 25$	$17.14 \pm 0.72$

## Emission Summary

H $\alpha$ broad SNR	7.01
H $\beta$ broad SNR	1.18
H $\gamma$ broad SNR	0.84
AGN frac	0.36
Host frac	0.64
$\log L_{5100, \text{Host}}$	43.58
Fe II/H $\beta$	–
Fe II/[O III]	–

## Quality Flags

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