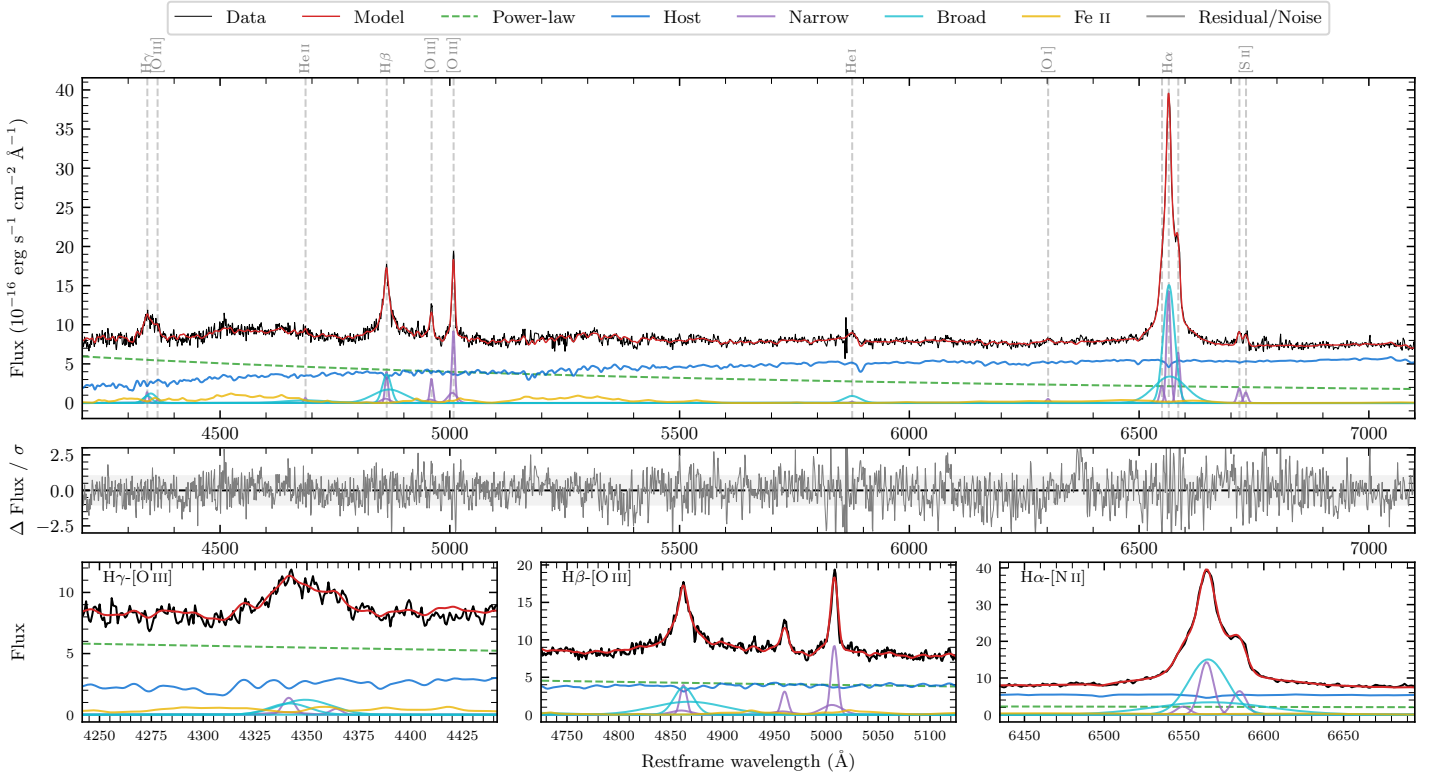
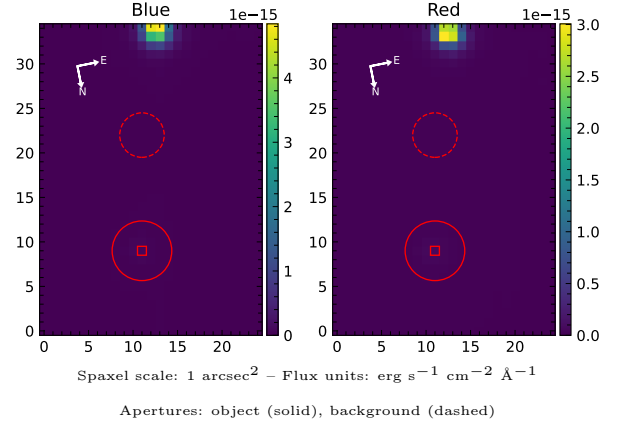


# 2MASS J14072198–3120576

Spectrum ID	101746230_sp1	Spectrum type	Sy 1.2
Alt name	g1407220–312058	Quality flag	good
$z$	0.0746	AGN reference	6dFGS
RA, Dec	211.8416, –31.3494	MW $E(B - V)$	0.054
MJD	59668.68	Power law $\alpha_\nu$	$0.29 \pm 0.16$
SNR/ $\text{\AA}$ B/R	17.0/27.6	$\log L_{5100, \text{AGN}}$	$43.42 \pm 0.02$
Obs airmass	1.01	$\log H\beta_{\text{Br}}/[\text{O III}]$	$0.34 \pm 0.02$
SMSS ID	101746230	$\log M_{L5100}/M_\odot$	$7.19 \pm 0.07$
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	$6.87 \pm 0.04$
SMSS $\langle r_6''_{\text{ap}} \rangle$	$16.46 \pm 0.06$	$\log M_{\text{H}\beta}/M_\odot$	$7.16 \pm 0.07$
2MASS $K_{\text{ext}}$	$12.94 \pm 0.11$	$\log M_{[\text{O III}]} / M_\odot$	$7.14 \pm 0.07$



## 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	$40.32 \pm 0.15$	$512 \pm 63$	$374 \pm 31$	$2.78 \pm 0.49$
<b>H<math>\gamma</math> Broad</b>	<b><math>40.94 \pm 0.06</math></b>	<b><math>1915 \pm 156</math></b>	<b><math>697 \pm 50</math></b>	<b><math>11.80 \pm 0.64</math></b>
[O III] 4364	$39.71 \pm 0.30$	$470 \pm 63$	$199 \pm 25$	$0.68 \pm 0.29$
He II Narrow	$39.89 \pm 0.17$	$470 \pm 63$	$199 \pm 25$	$1.22 \pm 0.30$
<b>He II Broad</b>	<b><math>40.78 \pm 0.10</math></b>	<b><math>6935 \pm 200</math></b>	<b><math>2945 \pm 84</math></b>	<b><math>9.43 \pm 1.20</math></b>
H $\beta$ Narrow	$40.83 \pm 0.07$	$512 \pm 63$	$374 \pm 31$	$11.55 \pm 0.58$
<b>H<math>\beta</math> Broad</b>	<b><math>41.55 \pm 0.02</math></b>	<b><math>1838 \pm 146</math></b>	<b><math>1259 \pm 61</math></b>	<b><math>60.32 \pm 1.14</math></b>
[O III] 5007	$41.21 \pm 0.01$	$512 \pm 63$	$374 \pm 31$	$29.60 \pm 0.65$
He I Narrow	$39.36 \pm 0.35$	$470 \pm 63$	$199 \pm 25$	$0.60 \pm 0.34$
<b>He I Broad</b>	<b><math>40.79 \pm 0.04</math></b>	<b><math>2199 \pm 123</math></b>	<b><math>934 \pm 51</math></b>	<b><math>16.14 \pm 0.72</math></b>
[O I] 6300	$39.92 \pm 0.09$	$470 \pm 63$	$199 \pm 25$	$2.56 \pm 0.35$
H $\alpha$ Narrow	$41.36 \pm 0.02$	$470 \pm 63$	$199 \pm 25$	$78.84 \pm 0.55$
<b>H<math>\alpha</math> Broad</b>	<b><math>42.05 \pm 0.01</math></b>	<b><math>1478 \pm 70</math></b>	<b><math>738 \pm 25</math></b>	<b><math>380.81 \pm 1.37</math></b>
[N II] 6585	$41.02 \pm 0.02$	$470 \pm 63$	$199 \pm 25$	$35.74 \pm 0.51$
[S II] 6718	$40.49 \pm 0.03$	$470 \pm 63$	$199 \pm 25$	$11.21 \pm 0.52$
[S II] 6732	$40.35 \pm 0.05$	$470 \pm 63$	$199 \pm 25$	$8.09 \pm 0.56$

## Emission Summary

H $\alpha$ broad SNR	37.84
H $\beta$ broad SNR	11.05
H $\gamma$ broad SNR	4.15
AGN frac	0.50
Host frac	0.50
$\log L_{5100, \text{Host}}$	43.43
Fe II/H $\beta$	0.95
Fe II/[O III]	2.07

## Quality Flags

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