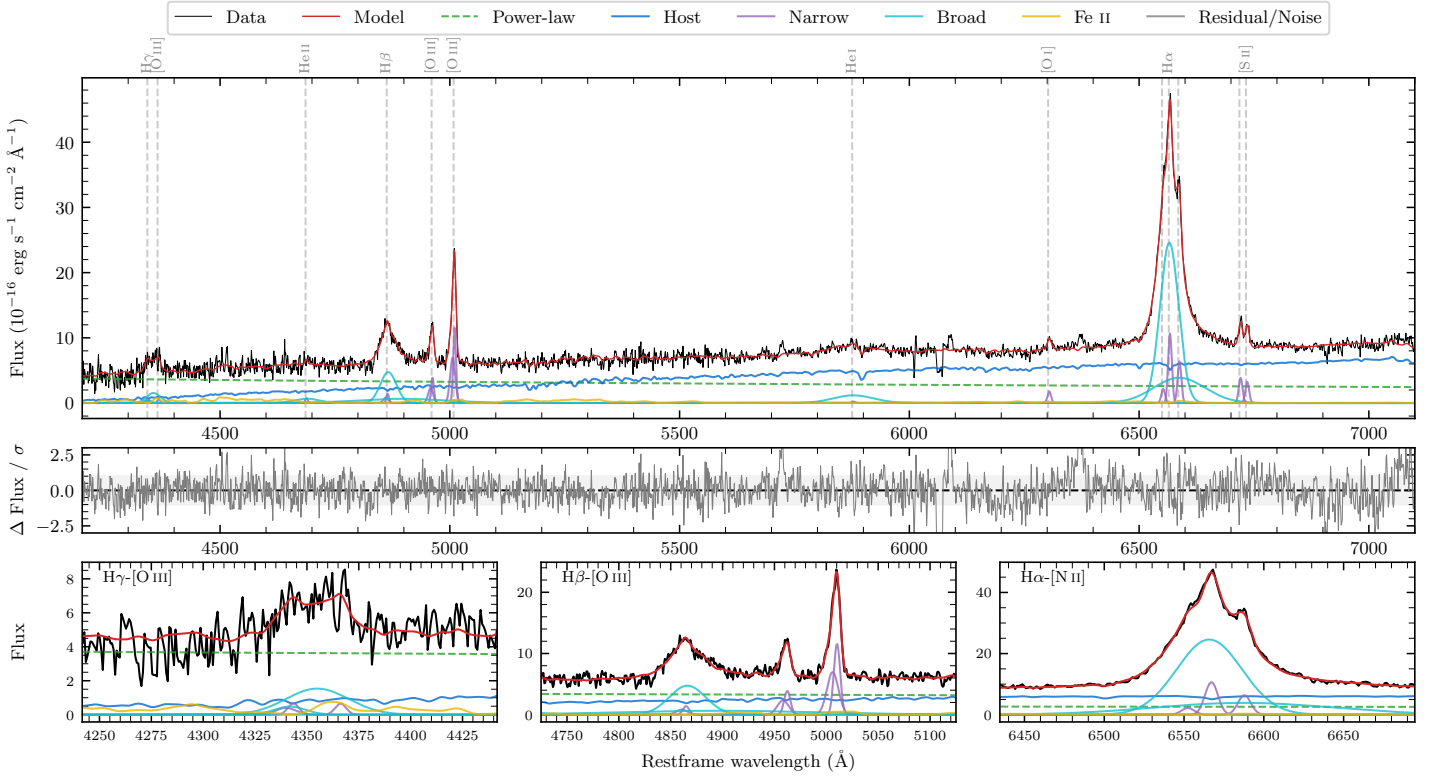
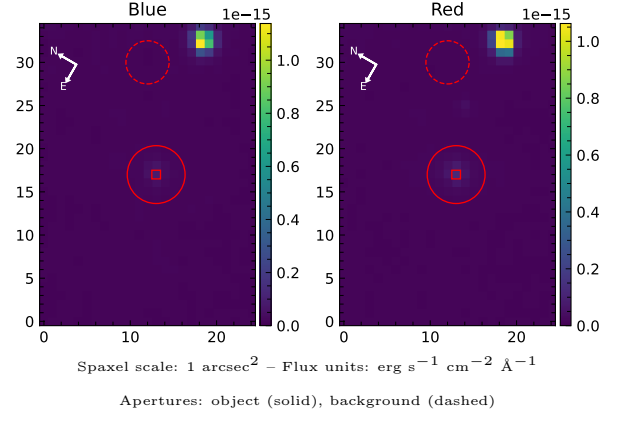


# 2MASS J07103298–5357523

Spectrum ID	471462345_sp1	Spectrum type	Sy 1.5
Alt name	g0710330–535752	Quality flag	good
$z$	0.0486	AGN reference	6dFGS
RA, Dec	107.6374, –53.9646	MW $E(B - V)$	0.112
MJD	60287.66	Power law $\alpha_\nu$	$-1.19 \pm 0.37$
SNR/ $\text{\AA}$ B/R	7.2/17.5	$\log L_{5100, \text{AGN}}$	$42.95 \pm 0.04$
Obs airmass	1.08	$\log H\beta_{\text{Br}}/[\text{O III}]$	$0.29 \pm 0.03$
SMSS ID	471462345	$\log M_{L5100}/M_\odot$	$7.34 \pm 0.04$
Neighbour	7.5", 471462347	$\log M_{\text{H}\alpha}/M_\odot$	$7.27 \pm 0.02$
SMSS $\langle r_6''_{\text{ap}} \rangle$	$16.10 \pm 0.06$	$\log M_{\text{H}\beta}/M_\odot$	$7.41 \pm 0.04$
2MASS $K_{\text{ext}}$	$12.05 \pm 0.07$	$\log M_{[\text{O III}]} / M_\odot$	$7.41 \pm 0.04$



## 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	$39.72 \pm 0.31$	$567 \pm 66$	$297 \pm 27$	$2.65 \pm 1.03$
<b>H<math>\gamma</math> Broad</b>	<b><math>40.59 \pm 0.09</math></b>	<b><math>2483 \pm 202</math></b>	<b><math>803 \pm 39</math></b>	<b><math>19.30 \pm 1.92</math></b>
[O III] 4364	$39.40 \pm 0.38$	$432 \pm 64$	$183 \pm 26$	$1.26 \pm 0.75$
He II Narrow	$39.50 \pm 0.29$	$432 \pm 64$	$183 \pm 26$	$1.67 \pm 0.67$
<b>He II Broad</b>	<b><math>40.42 \pm 0.12</math></b>	<b><math>4141 \pm 107</math></b>	<b><math>1758 \pm 45</math></b>	<b><math>14.13 \pm 2.12</math></b>
H $\beta$ Narrow	$40.10 \pm 0.12$	$567 \pm 66$	$297 \pm 27$	$6.88 \pm 0.88$
<b>H<math>\beta</math> Broad</b>	<b><math>41.32 \pm 0.03</math></b>	<b><math>2765 \pm 91</math></b>	<b><math>2192 \pm 128</math></b>	<b><math>115.20 \pm 3.93</math></b>
[O III] 5007	$41.03 \pm 0.01$	$567 \pm 66$	$297 \pm 27$	$59.83 \pm 0.91$
He I Narrow	$39.06 \pm 0.39$	$432 \pm 64$	$183 \pm 26$	$0.73 \pm 0.54$
<b>He I Broad</b>	<b><math>40.87 \pm 0.03</math></b>	<b><math>5245 \pm 139</math></b>	<b><math>2227 \pm 58</math></b>	<b><math>47.61 \pm 2.09</math></b>
[O I] 6300	$40.00 \pm 0.06$	$432 \pm 64$	$183 \pm 26$	$6.70 \pm 0.57$
H $\alpha$ Narrow	$40.79 \pm 0.03$	$432 \pm 64$	$183 \pm 26$	$43.24 \pm 0.97$
<b>H<math>\alpha</math> Broad</b>	<b><math>42.01 \pm 0.01</math></b>	<b><math>2391 \pm 65</math></b>	<b><math>1114 \pm 25</math></b>	<b><math>725.02 \pm 2.49</math></b>
[N II] 6585	$40.57 \pm 0.03$	$432 \pm 64$	$183 \pm 26$	$26.07 \pm 0.84$
[S II] 6718	$40.36 \pm 0.03$	$432 \pm 64$	$183 \pm 26$	$16.35 \pm 0.65$
[S II] 6732	$40.28 \pm 0.03$	$432 \pm 64$	$183 \pm 26$	$13.76 \pm 0.66$

## Emission Summary

H $\alpha$ broad SNR	31.19
H $\beta$ broad SNR	5.93
H $\gamma$ broad SNR	2.07
AGN frac	0.54
Host frac	0.46
$\log L_{5100, \text{Host}}$	42.88
Fe II/H $\beta$	0.41
Fe II/[O III]	0.80

## Quality Flags

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