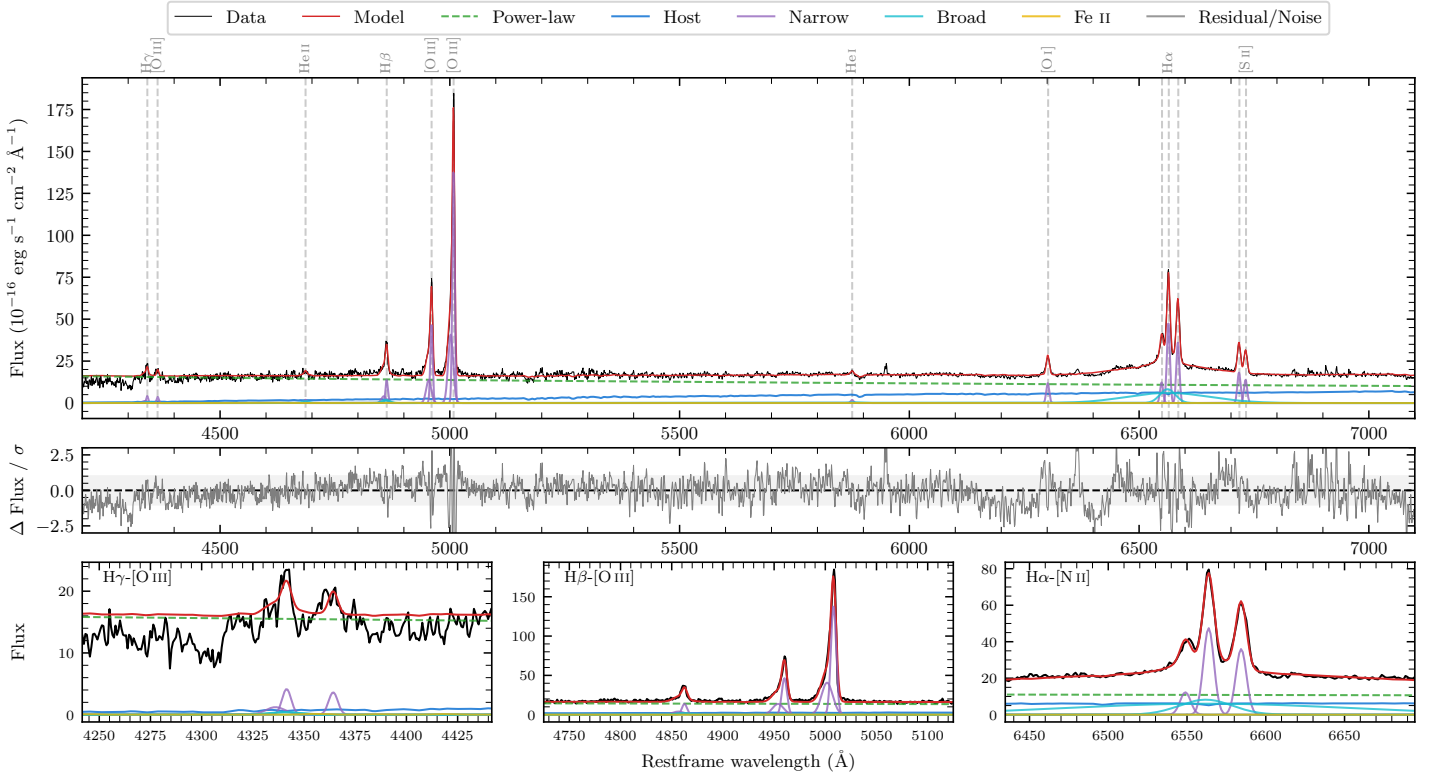
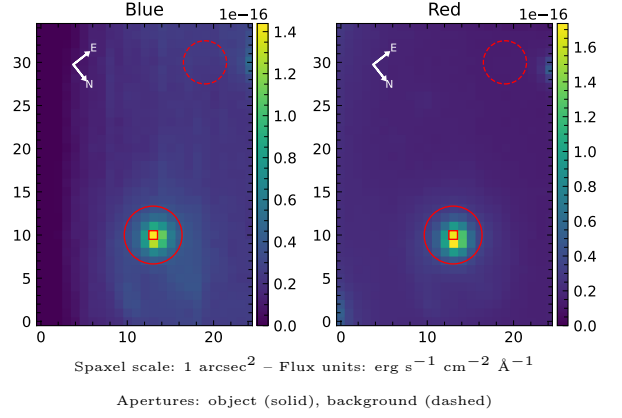


# LEDA 83641

Spectrum ID	98156119_sp1	Spectrum type	Sy 1.8
Alt name	g1254564-265702	Quality flag	good
$z$	0.0592	AGN reference	6dFGS
RA, Dec	193.7347, -26.9506	MW $E(B - V)$	0.064
MJD	59725.47	Power law $\alpha_\nu$	$-1.13 \pm 0.10$
SNR/ $\text{\AA}$ B/R	7.4/18.9	$\log L_{5100, \text{AGN}}$	$43.76 \pm 0.01$
Obs airmass	1.01	$\log H\beta_{\text{Br}}/[\text{O III}]$	$-1.26 \pm 0.18$
SMSS ID	98156119	$\log M_{L5100}/M_\odot$	$6.95 \pm 0.02$
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	$7.52 \pm 0.04$
SMSS $\langle r_6'' \text{ap} \rangle$	$15.43 \pm 0.39$	$\log M_{\text{H}\beta}/M_\odot$	$6.46 \pm 0.10$
2MASS $K_{\text{ext}}$	$11.10 \pm 0.04$	$\log M_{[\text{O III}]} / M_\odot$	$7.20 \pm 0.03$



## 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	$40.53 \pm 0.19$	$416 \pm 63$	$300 \pm 25$	$2.57 \pm 0.61$
<b>H<math>\gamma</math> Broad</b>	—	—	—	—
[O III] 4364	$40.26 \pm 0.22$	$363 \pm 63$	$154 \pm 25$	$1.39 \pm 0.41$
He II Narrow	$40.02 \pm 0.36$	$363 \pm 63$	$154 \pm 25$	$0.85 \pm 0.37$
<b>He II Broad</b>	<b><math>40.32 \pm 0.33</math></b>	<b><math>1183 \pm 63</math></b>	<b><math>502 \pm 25</math></b>	<b><math>1.69 \pm 0.68</math></b>
H $\beta$ Narrow	$41.10 \pm 0.07$	$416 \pm 63$	$300 \pm 25$	$10.54 \pm 0.56$
<b>H<math>\beta</math> Broad</b>	<b><math>40.85 \pm 0.18</math></b>	<b><math>1181 \pm 25</math></b>	<b><math>455 \pm 25</math></b>	<b><math>5.12 \pm 0.69</math></b>
[O III] 5007	$42.11 \pm 0.01$	$416 \pm 63$	$300 \pm 25$	$112.02 \pm 0.64$
He I Narrow	$40.11 \pm 0.16$	$363 \pm 63$	$154 \pm 25$	$1.28 \pm 0.21$
<b>He I Broad</b>	<b><math>39.97 \pm 0.36</math></b>	<b><math>1213 \pm 63</math></b>	<b><math>515 \pm 25</math></b>	<b><math>0.92 \pm 0.37</math></b>
[O I] 6300	$40.93 \pm 0.02$	$363 \pm 63$	$154 \pm 25$	$9.04 \pm 0.23$
H $\alpha$ Narrow	$41.55 \pm 0.01$	$363 \pm 63$	$154 \pm 25$	$39.08 \pm 0.30$
<b>H<math>\alpha</math> Broad</b>	<b><math>42.18 \pm 0.01</math></b>	<b><math>2845 \pm 112</math></b>	<b><math>2913 \pm 28</math></b>	<b><math>167.24 \pm 1.39</math></b>
[N II] 6585	$41.43 \pm 0.01$	$363 \pm 63$	$154 \pm 25$	$29.81 \pm 0.29$
[S II] 6718	$41.15 \pm 0.01$	$363 \pm 63$	$154 \pm 25$	$15.66 \pm 0.26$
[S II] 6732	$41.03 \pm 0.02$	$363 \pm 63$	$154 \pm 25$	$11.90 \pm 0.26$

## Emission Summary

H $\alpha$ broad SNR	6.93
H $\beta$ broad SNR	1.89
H $\gamma$ broad SNR	0.54
AGN frac	0.84
Host frac	0.16
$\log L_{5100, \text{Host}}$	43.04
Fe II/H $\beta$	—
Fe II/[O III]	—

## Quality Flags

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