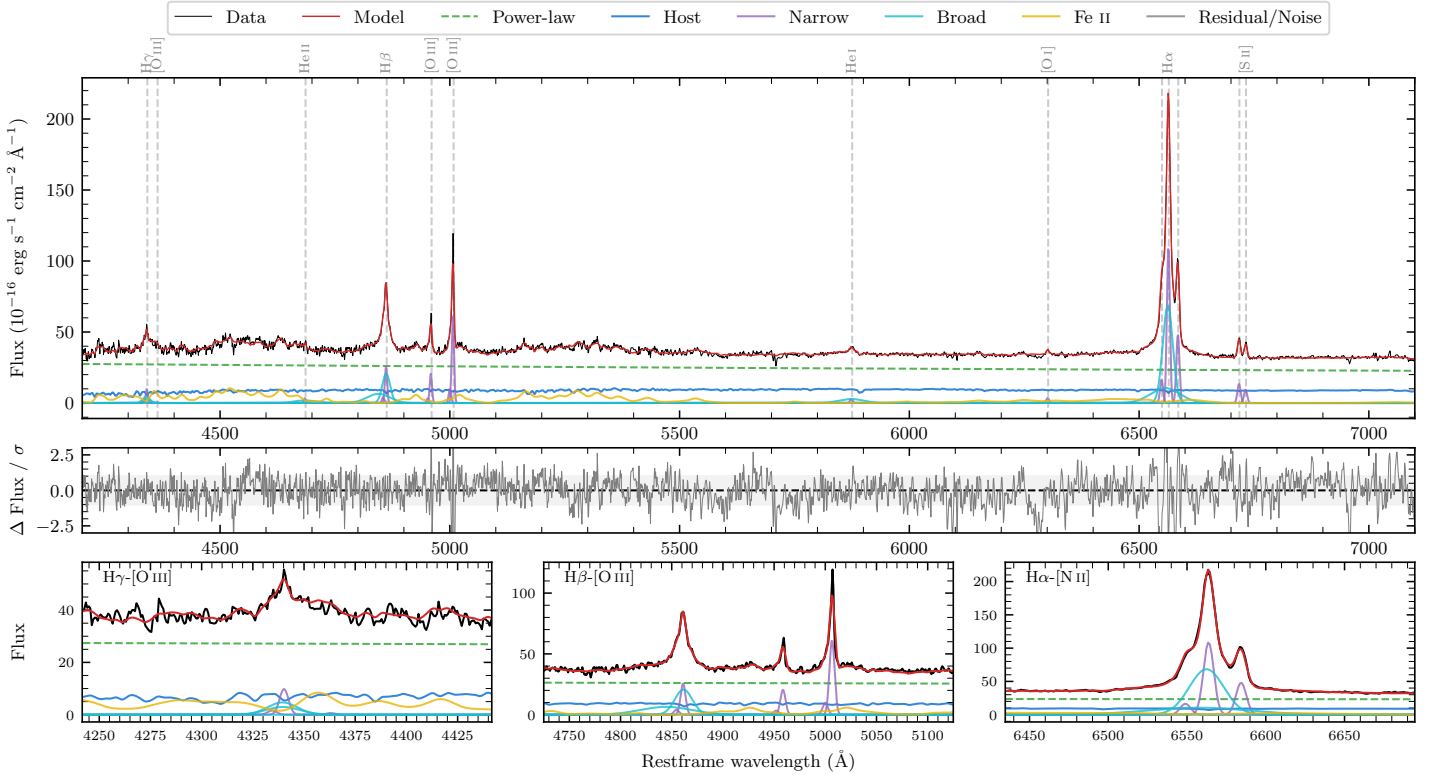
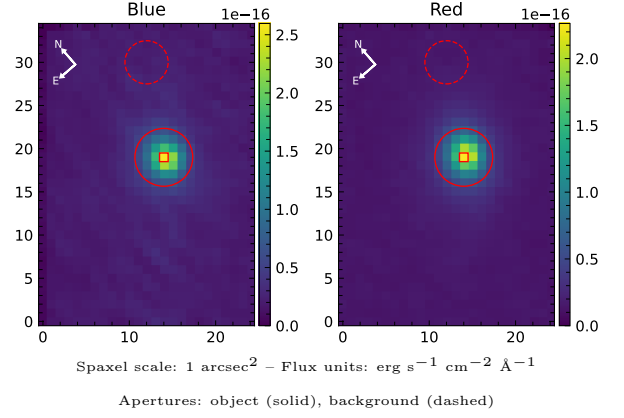


ESO 12–21

Spectrum ID	491254099_sp1	Spectrum type	Sy 1.5
Alt name	ESO 12–21	Quality flag	good
z	0.0327	AGN reference	PGC
RA, Dec	10.1920, -79.2400	MW $E(B - V)$	0.069
MJD	60905.8	Power law α_ν	-1.64 ± 0.02
SNR/ \AA B/R	20.8/37.4	$\log L_{5100, \text{AGN}}$	43.52 ± 0.01
Obs airmass	1.55	$\log H\beta_{\text{Br}}/[\text{O III}]$	0.28 ± 0.02
SMSS ID	491254099	$\log M_{L5100}/M_\odot$	7.03 ± 0.03
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	6.63 ± 0.04
SMSS $\langle r_6''_{\text{ap}} \rangle$	14.67 ± 0.09	$\log M_{\text{H}\beta}/M_\odot$	6.87 ± 0.04
2MASS K_{ext}	10.58 ± 0.03	$\log M_{[\text{O III}]} / M_\odot$	6.88 ± 0.04



Emission Line Measurements

Line	$\log L$ (erg s ⁻¹)	FWHM (km s ⁻¹)	σ (km s ⁻¹)	EW (Å)
H γ Narrow	40.21 ± 0.11	373 ± 63	204 ± 25	2.37 ± 0.24
Hγ Broad	40.60 ± 0.07	1227 ± 74	438 ± 27	5.58 ± 0.41
[O III] 4364	–	–	–	–
He II Narrow	39.72 ± 0.16	356 ± 63	150 ± 25	0.78 ± 0.17
He II Broad	40.44 ± 0.10	3439 ± 98	1461 ± 41	4.18 ± 0.52
H β Narrow	40.68 ± 0.03	373 ± 63	204 ± 25	7.24 ± 0.17
Hβ Broad	41.34 ± 0.01	1465 ± 49	819 ± 27	33.50 ± 0.52
[O III] 5007	41.07 ± 0.01	373 ± 63	204 ± 25	17.95 ± 0.20
He I Narrow	39.73 ± 0.09	356 ± 63	150 ± 25	0.87 ± 0.10
He I Broad	40.68 ± 0.03	3175 ± 81	1348 ± 33	7.89 ± 0.33
[O I] 6300	39.86 ± 0.06	356 ± 63	150 ± 25	1.21 ± 0.11
H α Narrow	41.37 ± 0.01	356 ± 63	150 ± 25	39.66 ± 0.17
Hα Broad	41.85 ± 0.01	1287 ± 63	601 ± 25	120.27 ± 0.38
[N II] 6585	41.01 ± 0.01	356 ± 63	150 ± 25	17.61 ± 0.14
[S II] 6718	40.47 ± 0.02	356 ± 63	150 ± 25	5.04 ± 0.12
[S II] 6732	40.31 ± 0.02	356 ± 63	150 ± 25	3.55 ± 0.12

Emission Summary

H α broad SNR	42.42
H β broad SNR	13.94
H γ broad SNR	4.34
AGN frac	0.76
Host frac	0.24
$\log L_{5100, \text{Host}}$	43.03
Fe II/H β	2.32
Fe II/[O III]	4.38

Quality Flags

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