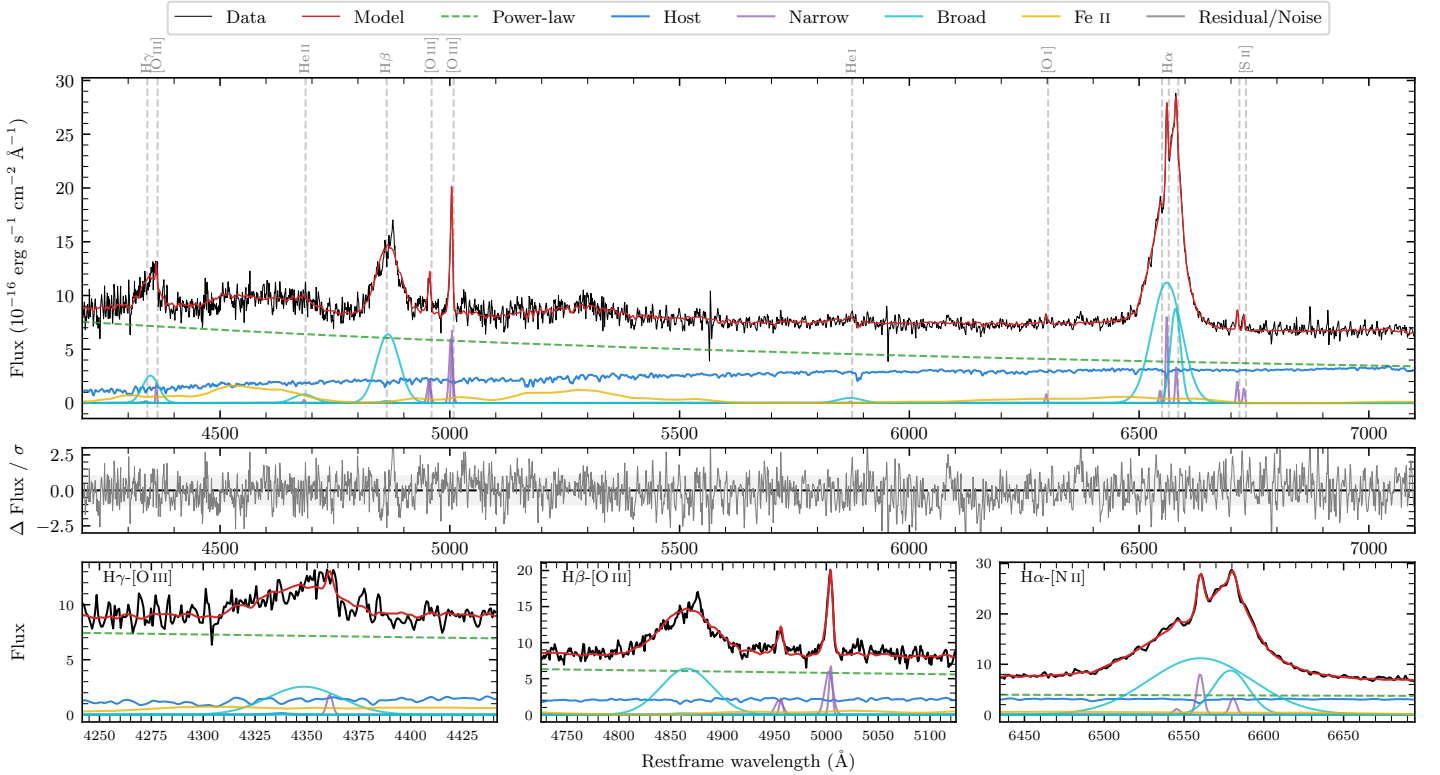
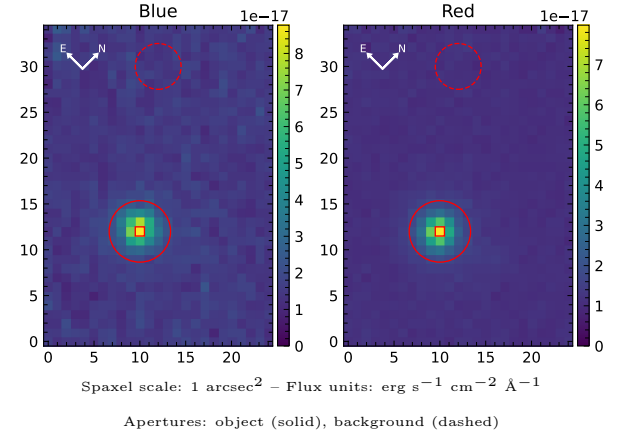


HE 2222–0026

Spectrum ID	7468691_sp1	Spectrum type	Sy 1.2
Alt name	g2224353–001104	Quality flag	good
z	0.0582	AGN reference	6dFGS
RA, Dec	336.1471, –0.1844	MW $E(B - V)$	0.060
MJD	60941.42	Power law α_ν	-0.49 ± 0.13
SNR/ \AA B/R	13.2/21.5	$\log L_{5100, \text{AGN}}$	43.38 ± 0.02
Obs airmass	1.40	$\log H\beta_{\text{Br}}/[\text{O III}]$	0.68 ± 0.02
SMSS ID	7468691	$\log M_{L5100}/M_\odot$	7.74 ± 0.02
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	7.33 ± 0.02
SMSS $\langle r_6''_{\text{ap}} \rangle$	16.48 ± 0.18	$\log M_{\text{H}\beta}/M_\odot$	7.73 ± 0.03
2MASS K_{ext}	12.67 ± 0.08	$\log M_{[\text{O III}]} / M_\odot$	7.55 ± 0.04



Emission Line Measurements

Line	$\log L$ (erg s ⁻¹)	FWHM (km s ⁻¹)	σ (km s ⁻¹)	EW (Å)
H γ Narrow	–	–	–	–
Hγ Broad	41.01 ± 0.04	2850 ± 67	1027 ± 25	16.90 ± 0.80
[O III] 4364	39.76 ± 0.17	232 ± 63	98 ± 25	0.97 ± 0.22
He II Narrow	39.05 ± 0.44	232 ± 63	98 ± 25	0.21 ± 0.20
He II Broad	40.62 ± 0.08	3535 ± 70	1501 ± 28	7.84 ± 0.88
H β Narrow	–	–	–	–
Hβ Broad	41.56 ± 0.01	3543 ± 74	1330 ± 26	70.84 ± 0.92
[O III] 5007	40.88 ± 0.02	355 ± 64	206 ± 26	15.61 ± 0.36
He I Narrow	–	–	–	–
He I Broad	40.45 ± 0.07	3213 ± 72	1365 ± 29	7.32 ± 0.69
[O I] 6300	39.59 ± 0.13	232 ± 63	98 ± 25	1.13 ± 0.24
H α Narrow	40.59 ± 0.02	232 ± 63	98 ± 25	12.04 ± 0.29
Hα Broad	42.01 ± 0.01	2550 ± 71	1164 ± 25	319.88 ± 0.97
[N II] 6585	40.20 ± 0.05	232 ± 63	98 ± 25	4.96 ± 0.26
[S II] 6718	39.98 ± 0.05	232 ± 63	98 ± 25	3.09 ± 0.28
[S II] 6732	39.82 ± 0.07	232 ± 63	98 ± 25	2.14 ± 0.20

Emission Summary

H α broad SNR	27.82
H β broad SNR	10.04
H γ broad SNR	3.99
AGN frac	0.72
Host frac	0.28
$\log L_{5100, \text{Host}}$	42.97
Fe II/H β	0.87
Fe II/[O III]	4.14

Quality Flags

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