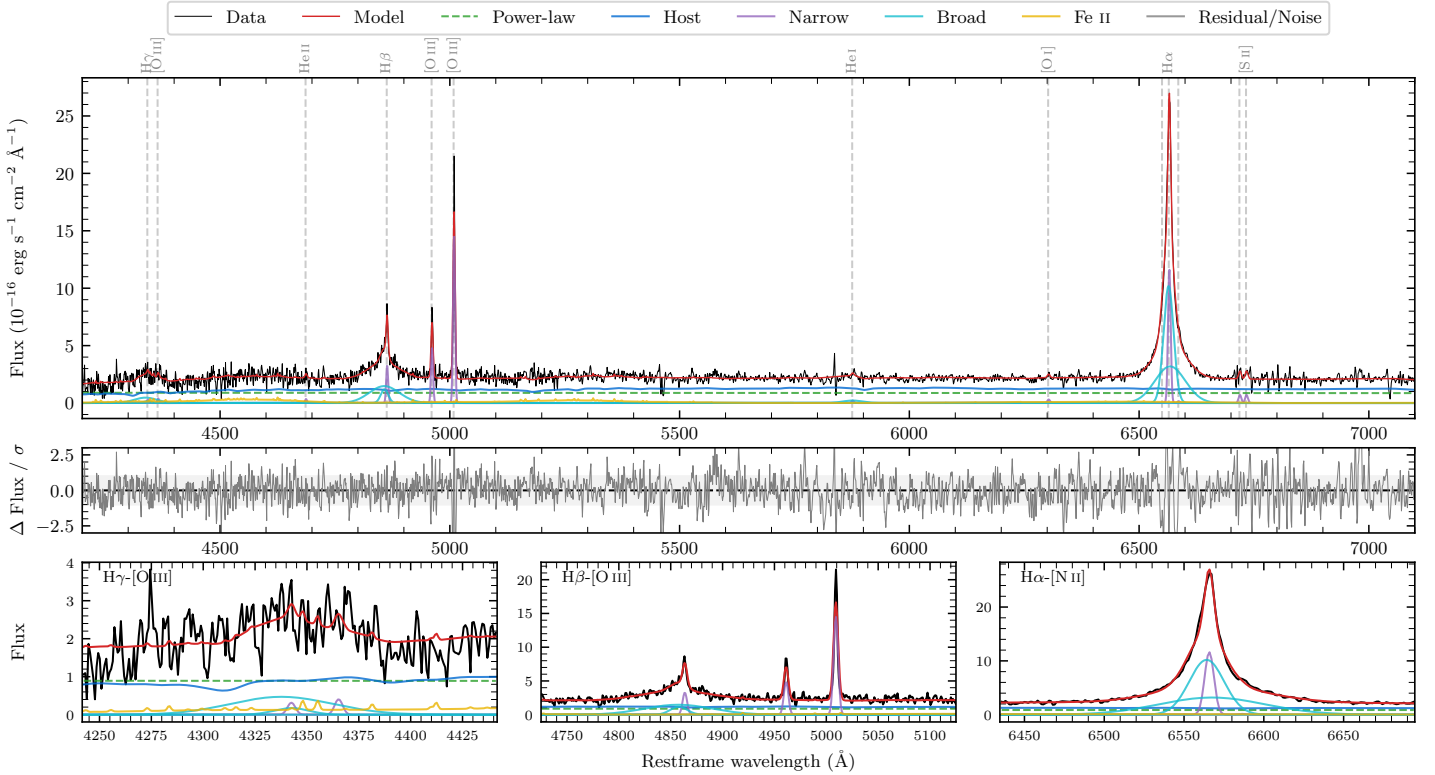
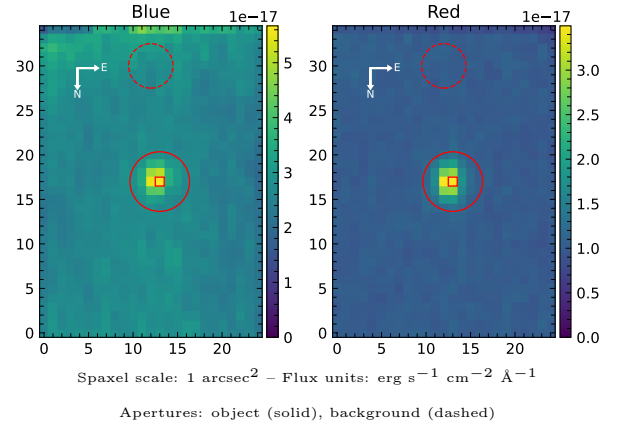


6dFGS gJ044210.6–032311

Spectrum ID	25142772_sp1	Spectrum type	Sy 1.5
Alt name	g0442106–032311	Quality flag	good
z	0.0796	AGN reference	6dFGS
RA, Dec	70.5440, –3.3863	MW $E(B - V)$	0.028
MJD	60950.73	Power law α_ν	-1.94 ± 0.07
SNR/ \AA B/R	4.6/9.3	$\log L_{5100, \text{AGN}}$	42.85 ± 0.08
Obs airmass	1.14	$\log H\beta_{\text{Br}}/[\text{O III}]$	0.25 ± 0.03
SMSS ID	25142772	$\log M_{L5100}/M_\odot$	7.14 ± 0.16
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	6.78 ± 0.04
SMSS $\langle r_6'' \text{ap} \rangle$	17.51 ± 0.06	$\log M_{\text{H}\beta}/M_\odot$	7.29 ± 0.16
2MASS K_{ext}	nan \pm nan	$\log M_{[\text{O III}]} / M_\odot$	7.31 ± 0.16



Emission Line Measurements

Line	$\log L$ (erg s ⁻¹)	FWHM (km s ⁻¹)	σ (km s ⁻¹)	EW (Å)
H γ Narrow	–	–	–	–
Hγ Broad	40.75 ± 0.12	3095 ± 759	1359 ± 68	39.49 ± 5.65
[O III] 4364	39.52 ± 0.37	314 ± 63	133 ± 25	2.39 ± 1.51
He II Narrow	39.49 ± 0.37	314 ± 63	133 ± 25	2.23 ± 1.31
He II Broad	–	–	–	–
H β Narrow	40.48 ± 0.06	315 ± 63	142 ± 26	21.97 ± 2.24
Hβ Broad	41.39 ± 0.02	2319 ± 397	1492 ± 42	177.24 ± 5.53
[O III] 5007	41.14 ± 0.01	315 ± 63	142 ± 26	100.22 ± 2.31
He I Narrow	39.40 ± 0.29	314 ± 63	133 ± 25	1.83 ± 0.70
He I Broad	40.30 ± 0.13	2585 ± 63	1097 ± 25	14.63 ± 2.36
[O I] 6300	39.56 ± 0.17	314 ± 63	133 ± 25	2.71 ± 0.65
H α Narrow	41.15 ± 0.01	314 ± 63	133 ± 25	105.51 ± 1.04
Hα Broad	41.96 ± 0.01	1402 ± 63	774 ± 25	678.03 ± 2.91
[N II] 6585	39.26 ± 0.38	314 ± 63	133 ± 25	1.35 ± 0.77
[S II] 6718	39.94 ± 0.11	314 ± 63	133 ± 25	6.50 ± 1.12
[S II] 6732	39.95 ± 0.09	314 ± 63	133 ± 25	6.62 ± 1.04

Emission Summary

H α broad SNR	28.16
H β broad SNR	5.61
H γ broad SNR	1.46
AGN frac	0.43
Host frac	0.57
$\log L_{5100, \text{Host}}$	42.96
Fe II/H β	0.55
Fe II/[O III]	0.98

Quality Flags

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