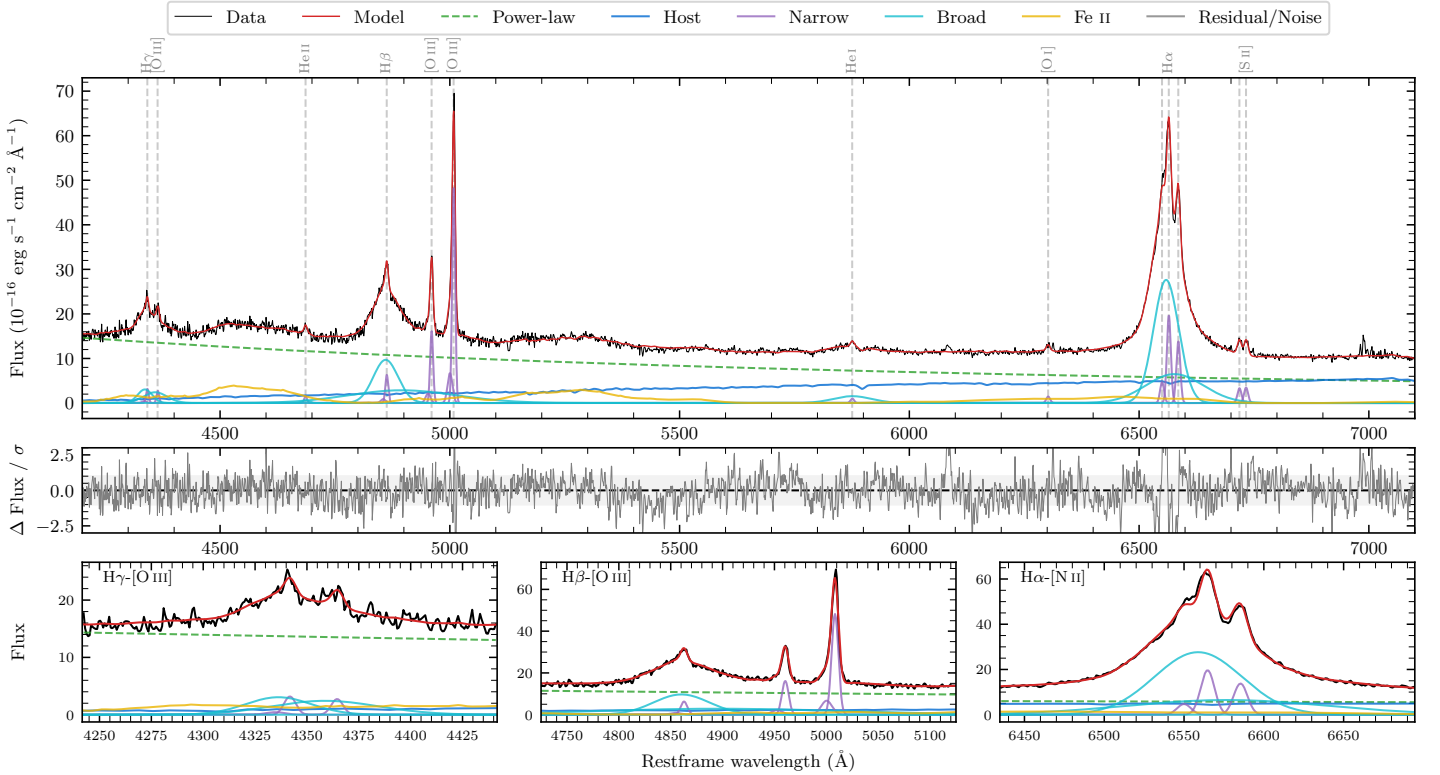
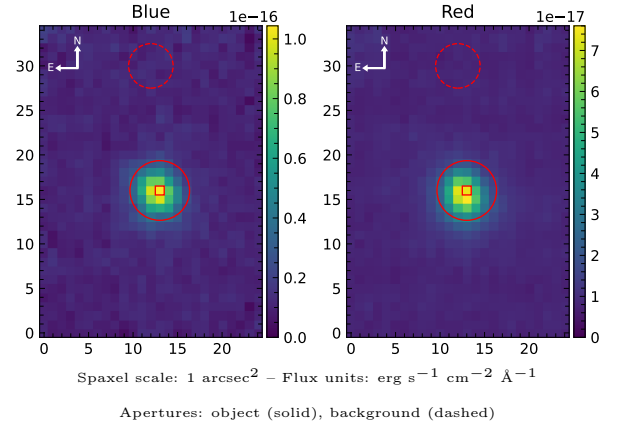


IRAS 21224–0450

Spectrum ID	4820187_sp1	Spectrum type	Sy 1.2
Alt name	g2125023–043716	Quality flag	good
z	0.0882	AGN reference	6dFGS
RA, Dec	321.2596, –4.6211	MW $E(B - V)$	0.041
MJD	60166.56	Power law α_ν	0.09 ± 0.09
SNR/ \AA B/R	20.2/26.8	$\log L_{5100, \text{AGN}}$	43.98 ± 0.01
Obs airmass	1.14	$\log H\beta_{\text{Br}}/[\text{O III}]$	0.49 ± 0.01
SMSS ID	4820187	$\log M_{L5100}/M_\odot$	8.23 ± 0.02
Neighbour	None $< 15''$	$\log M_{\text{H}\alpha}/M_\odot$	8.03 ± 0.04
SMSS $\langle r_6'' \text{ap} \rangle$	15.45 ± 0.09	$\log M_{\text{H}\beta}/M_\odot$	8.39 ± 0.02
2MASS K_{ext}	11.38 ± 0.04	$\log M_{[\text{O III}]} / M_\odot$	8.34 ± 0.02



Emission Line Measurements

Line	$\log L$ (erg s^{-1})	FWHM (km s^{-1})	σ (km s^{-1})	EW (\AA)
H γ Narrow	40.77 ± 0.08	491 ± 63	290 ± 27	2.21 ± 0.23
Hγ Broad	41.77 ± 0.02	3633 ± 263	1409 ± 52	22.11 ± 0.56
[O III] 4364	40.62 ± 0.09	464 ± 63	197 ± 25	1.58 ± 0.19
He II Narrow	40.39 ± 0.17	464 ± 63	197 ± 25	1.09 ± 0.19
He II Broad	40.41 ± 0.26	1180 ± 62	501 ± 25	1.15 ± 0.30
H β Narrow	41.12 ± 0.03	491 ± 63	290 ± 27	6.23 ± 0.28
Hβ Broad	42.50 ± 0.01	4655 ± 85	3770 ± 88	152.28 ± 1.39
[O III] 5007	42.01 ± 0.01	491 ± 63	290 ± 27	52.06 ± 0.33
He I Narrow	40.32 ± 0.10	464 ± 63	197 ± 25	1.49 ± 0.23
He I Broad	41.53 ± 0.02	4949 ± 131	2102 ± 55	23.88 ± 0.65
[O I] 6300	40.50 ± 0.05	464 ± 63	197 ± 25	2.60 ± 0.24
H α Narrow	41.65 ± 0.01	464 ± 63	197 ± 25	40.17 ± 0.40
Hα Broad	42.79 ± 0.01	3306 ± 65	1476 ± 25	551.79 ± 1.15
[N II] 6585	41.50 ± 0.01	464 ± 63	197 ± 25	28.43 ± 0.38
[S II] 6718	40.89 ± 0.03	464 ± 63	197 ± 25	7.31 ± 0.30
[S II] 6732	40.91 ± 0.02	464 ± 63	197 ± 25	7.68 ± 0.32

Emission Summary

H α broad SNR	44.83
H β broad SNR	16.48
H γ broad SNR	6.37
AGN frac	0.80
Host frac	0.20
$\log L_{5100, \text{Host}}$	43.38
Fe II/H β	0.56
Fe II/[O III]	1.74

Quality Flags

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