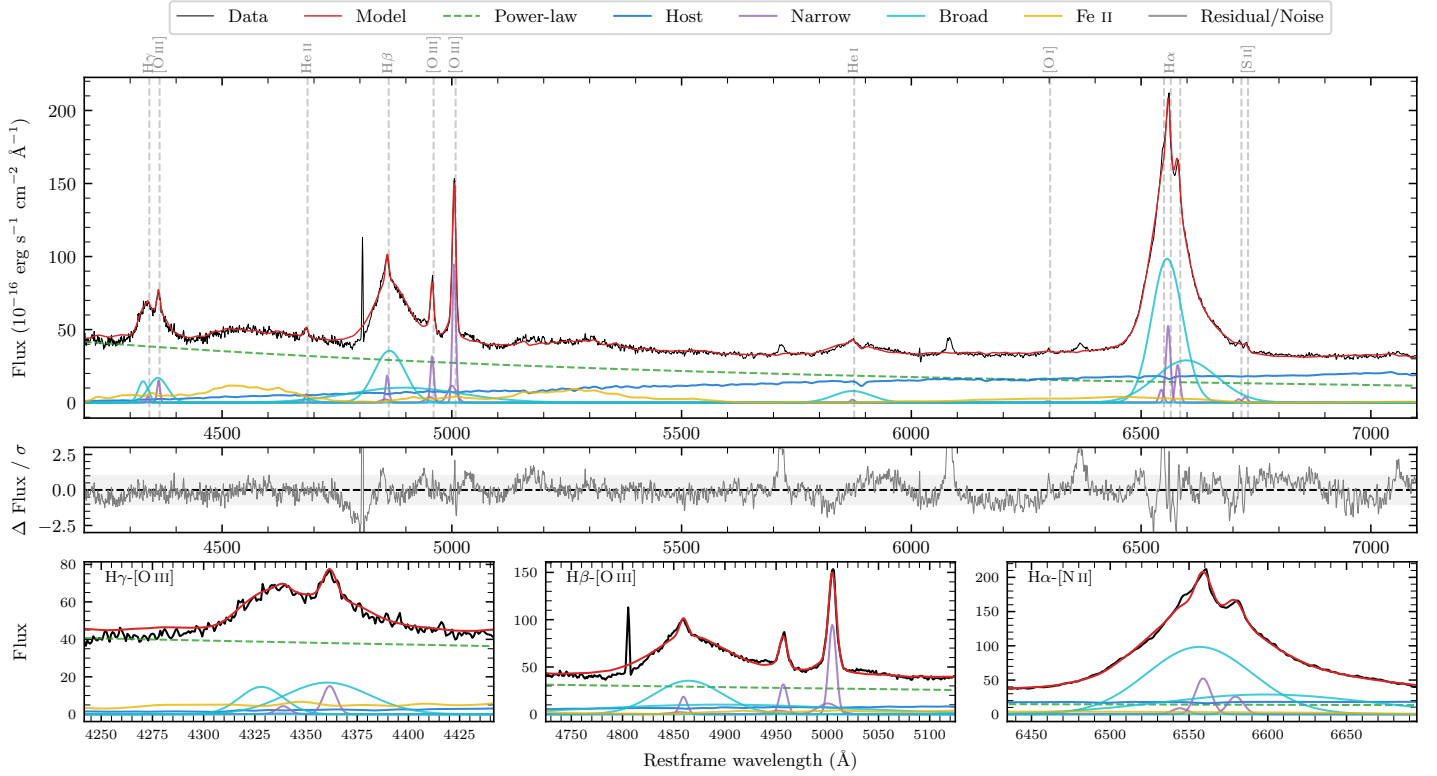
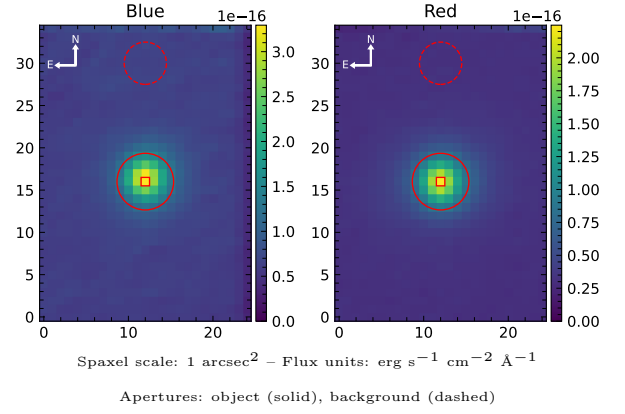


ESO 113-45

Spectrum ID	1616242056_sp1	Spectrum Type	Sy 1.2
Alt name	Fairall9	Quality Flag	good
z	0.0463	AGN reference	PGC
RA, Dec	20.9408, -58.8058	MW $E(B - V)$	0.022
MJD	60563.48	Power law α_ν	0.43 ± 0.05
SNR/Å B/R	12.7/21.6	$\log L_{5100, \text{AGN}}$	43.84 ± 0.01
Obs Airmass	1.69	$\log H\beta_{\text{Br}} / [\text{O III}]$	0.40 ± 0.17
SMSS ID	1616242056	$\log M_{L5100} / M_\odot$	8.20 ± 0.01
Closest SMSS	7.19", 2720807752	$\log M_{\text{H}\alpha} / M_\odot$	8.25 ± 0.04
SMSS Mean r_{psf}	13.7 ± 0.1	$\log M_{\text{H}\beta} / M_\odot$	8.29 ± 0.08
2MASS K_{ext}	10.4 ± 0.0	$\log M_{[\text{O III}]} / M_\odot$	8.27 ± 0.01



Emission Line Measurements

Line	$\log L$ (erg s $^{-1}$)	FWHM (km s $^{-1}$)	σ (km s $^{-1}$)	EW (Å)
H γ Narrow	40.41 ± 0.25	573 ± 63	370 ± 29	1.29 ± 0.54
Hγ Broad	41.84 ± 0.03	4434 ± 167	1431 ± 32	34.60 ± 0.88
[O III] 4364	40.83 ± 0.09	539 ± 63	228 ± 25	3.46 ± 0.36
He II Narrow	40.44 ± 0.17	539 ± 63	228 ± 25	1.66 ± 0.34
He II Broad	—	—	—	—
H β Narrow	41.09 ± 0.05	573 ± 63	371 ± 29	8.13 ± 0.60
Hβ Broad	$42.21^{+0.31}_{-0.01}$	4811 ± 60	1794 ± 30	106.07 ± 1.12
[O III] 5007	41.81 ± 0.01	573 ± 63	371 ± 29	45.79 ± 0.62
He I Narrow	40.10 ± 0.18	539 ± 63	228 ± 25	1.33 ± 0.32
He I Broad	41.65 ± 0.02	4958 ± 106	2105 ± 44	46.76 ± 1.05
[O I] 6300	39.80 ± 0.27	539 ± 63	228 ± 25	0.79 ± 0.35
H α Narrow	41.55 ± 0.02	539 ± 63	228 ± 25	48.84 ± 0.77
Hα Broad	42.85 ± 0.01	4113 ± 67	1827 ± 25	978.57 ± 1.82
[N II] 6585	41.25 ± 0.03	539 ± 63	228 ± 25	24.33 ± 0.75
[S II] 6718	40.22 ± 0.13	539 ± 63	228 ± 25	2.39 ± 0.42
[S II] 6732	40.43 ± 0.08	539 ± 63	228 ± 25	3.91 ± 0.43

Emission Summary

H α Broad SNR	35.94
H β Broad SNR	10.42
H γ Broad SNR	6.00
AGN frac	0.77
Host frac	0.23
$\log L_{5100, \text{Host}}$	43.32
Fe II/H β	—
Fe II/[O III]	—

Quality Flags

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