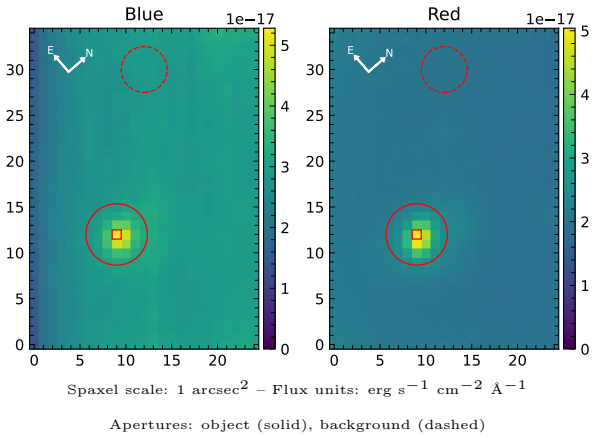
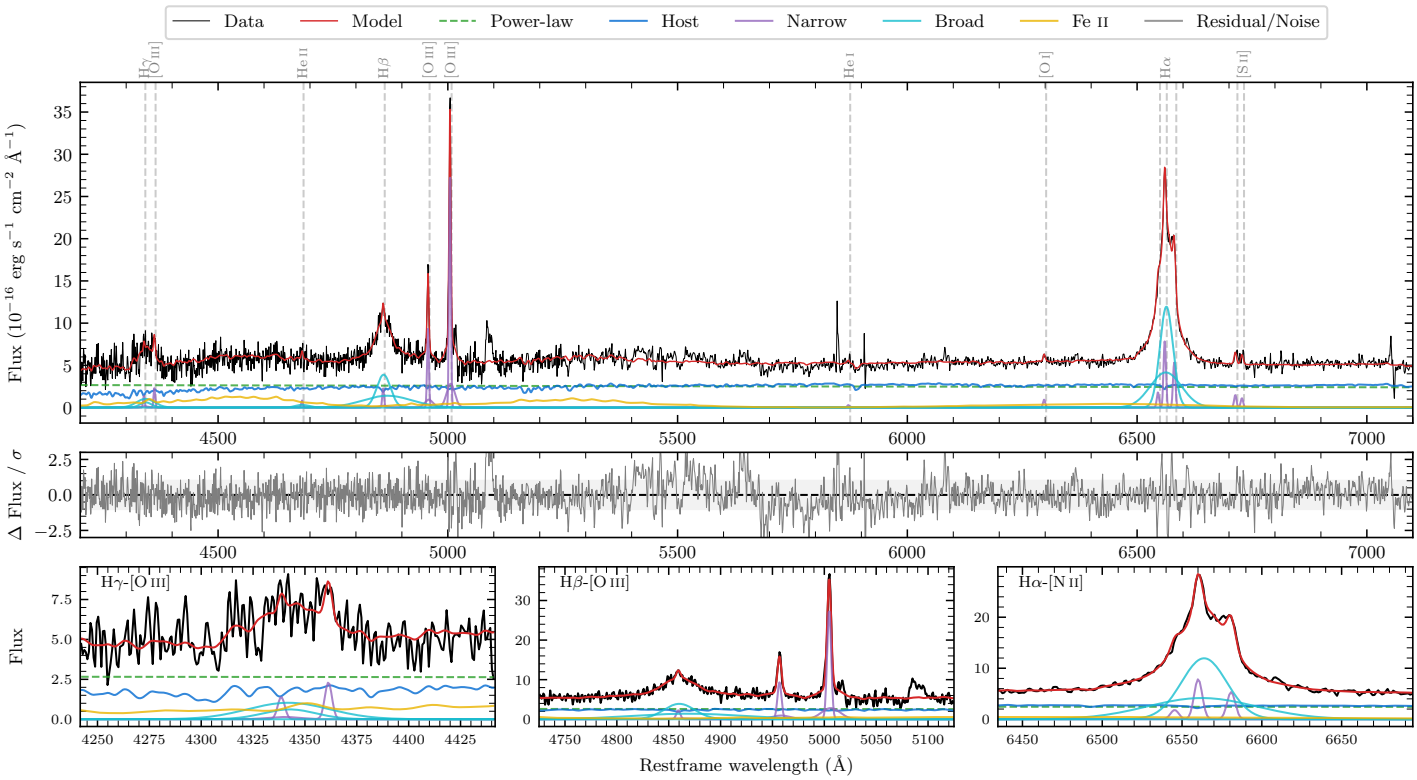
2MASS J16161077-1014059

Spectrum ID	192188594_sp1
Alt name	g1616108-101406
z	0.0771
RA, Dec	244.0449, -10.2350
MJD	59436.36
SNR/Å B/R	6.6/11.6
Obs Airmass	1.08
SMSS ID	192188594
Closest SMSS	13.95", 192188595
SMSS Mean $r_{\rm psf}$	17.3 ± 0.1
2MASS $K_{\rm ext}$	12.6 ± 0.1

Spectrum Type	Sy 1.5
Quality Flag	good
AGN reference	6dFGS
MW $E(B-V)$	0.234
Power law α_ν	-1.80 ± 0.18
$\log L_{5100,\rm AGN}$	43.29 ± 0.04
$\log$ H$\beta_{\rm Br}$/[O III]	0.23 ± 0.03
$\log M_{\rm L5100}/M_\odot$	7.46 ± 0.05
$\log M_{\rm H\alpha}/M_\odot$	7.08 ± 0.03
$\log M_{\rm H\beta}/M_\odot$	7.57 ± 0.05
$\log M_{\rm [O\,III]}/M_\odot$	7.62 ± 0.05





Emission Line Measurements

Line	$\log L$ (erg s^{-1})	FWHM (km s^{-1})	σ (km s^{-1})	EW (Å)
Hγ Narrow	40.14 ± 0.24	301 ± 63	318 ± 32	3.54 ± 1.75
Hγ Broad	$\mathbf{41.07 \pm 0.09}$	$\mathbf{2718 \pm 393}$	$\mathbf{1044 \pm 104}$	$\mathbf{28.75 \pm 2.97}$
[O III] 4364	40.20 ± 0.15	277 ± 63	117 ± 25	4.02 ± 0.86
He II Narrow	39.79 ± 0.31	277 ± 63	117 ± 25	1.60 ± 0.71
He II Broad	40.26 ± 0.30	2148 ± 144	912 ± 60	4.77 ± 2.05
Hβ Narrow	40.40 ± 0.13	301 ± 63	318 ± 32	6.57 ± 1.54
Hβ Broad	$\mathbf{41.73 \pm 0.02}$	$\mathbf{2685 \pm 152}$	$\mathbf{1775 \pm 82}$	$\mathbf{139.48 \pm 4.18}$
[O III] 5007	41.50 ± 0.01	301 ± 63	318 ± 32	83.56 ± 1.81
He I Narrow	39.43 ± 0.35	277 ± 63	117 ± 25	0.73 ± 0.43
He I Broad	–	–	–	–
[O I] 6300	39.97 ± 0.12	277 ± 63	117 ± 25	2.57 ± 0.44
Hα Narrow	40.90 ± 0.02	277 ± 63	117 ± 25	22.30 ± 0.57
Hα Broad	$\mathbf{42.10 \pm 0.01}$	$\mathbf{1814 \pm 67}$	$\mathbf{851 \pm 25}$	$\mathbf{345.70 \pm 1.96}$
[N II] 6585	40.74 ± 0.03	277 ± 63	117 ± 25	15.17 ± 0.55
[S II] 6718	40.20 ± 0.08	277 ± 63	117 ± 25	4.37 ± 0.61
[S II] 6732	40.07 ± 0.11	277 ± 63	117 ± 25	3.26 ± 0.69

Emission Summary

Hα Broad SNR	19.32
Hβ Broad SNR	6.32
Hγ Broad SNR	2.09
AGN frac	0.52
Host frac	0.48
$\log L_{5100,\rm Host}$	43.25
Fe II/Hβ	1.00
Fe II/[O III]	1.68

Quality Flags

spurious_hab/hbb	0/0
l5100	0
balmer	0
balmer_snr	1
hb_width	1
balmer_width	0