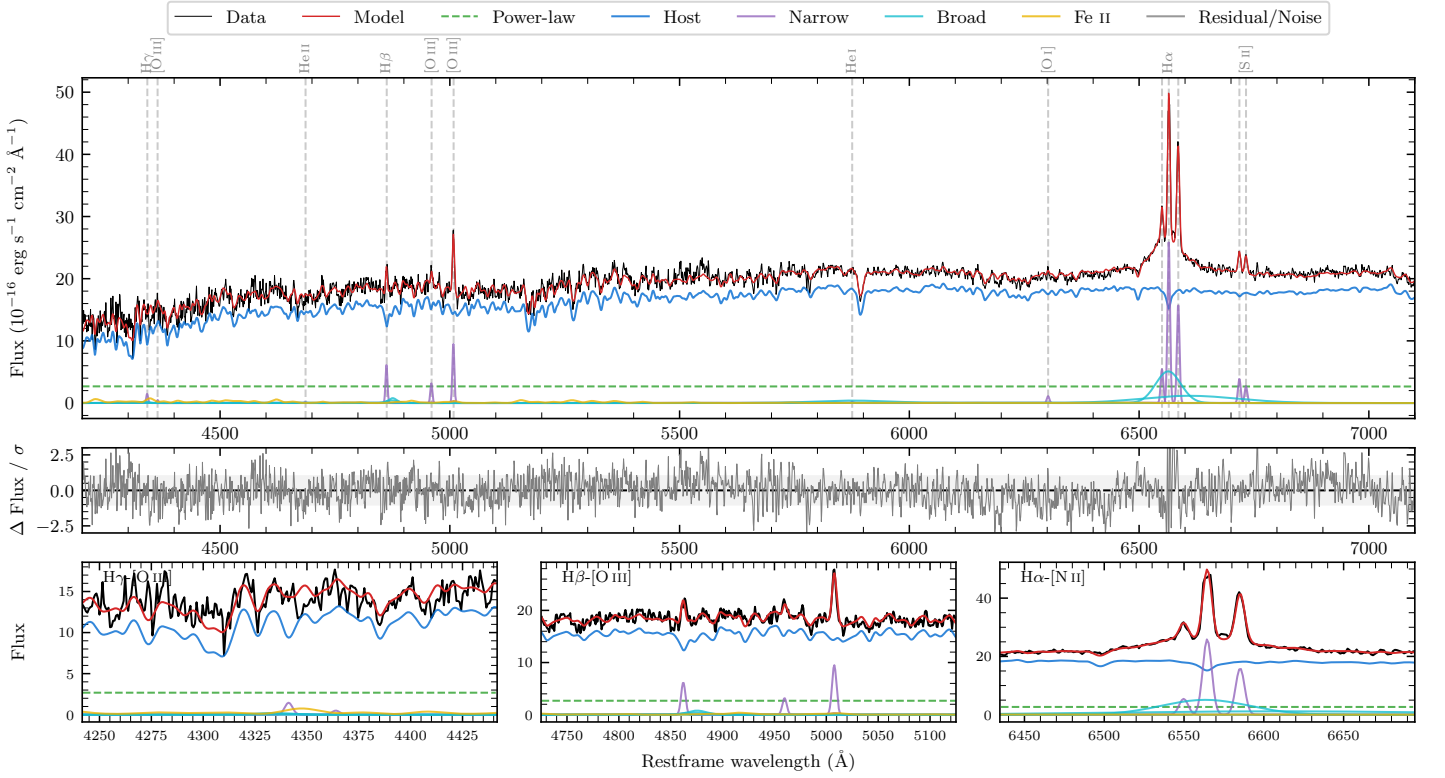
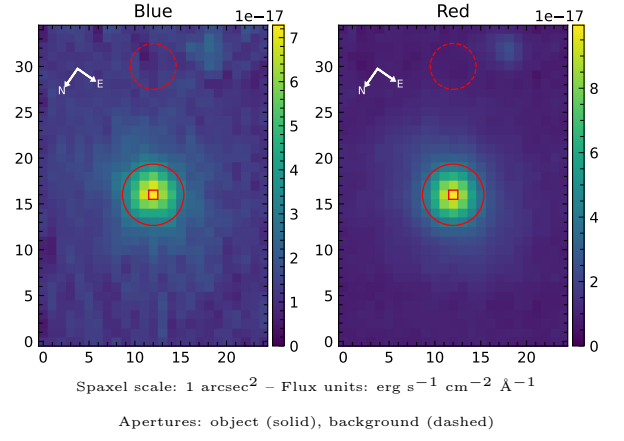


# 2MASX J21075991–2950089

|  |                    |  |                  |
|--|--------------------|--|------------------|
| Spectrum ID                              | 250581_sp1         | Spectrum type                            | Sy 1.5           |
| Alt name                                 | g2107599–295009    | Quality flag                             | good             |
| $z$                                      | 0.0198             | AGN reference                            | 6dFGS            |
| RA, Dec                                  | 316.9997, –29.8358 | MW $E(B - V)$                            | 0.087            |
| MJD                                      | 60166.54           | Power law $\alpha_\nu$                   | $-1.98 \pm 0.02$ |
| SNR/ $\text{\AA}$ B/R                    | 19.3/39.9          | $\log L_{5100, \text{AGN}}$              | $42.09 \pm 0.05$ |
| Obs airmass                              | 1.03               | $\log H\beta_{\text{Br}}/[\text{O III}]$ | $-0.21 \pm 0.11$ |
| SMSS ID                                  | 250581             | $\log M_{L5100}/M_\odot$                 | $6.41 \pm 0.09$  |
| Neighbour                                | None $< 15''$      | $\log M_{\text{H}\alpha}/M_\odot$        | $6.81 \pm 0.05$  |
| SMSS $\langle r_6''_{\text{ap}} \rangle$ | $15.22 \pm 0.03$   | $\log M_{\text{H}\beta}/M_\odot$         | $6.03 \pm 0.12$  |
| 2MASS $K_{\text{ext}}$                   | $10.76 \pm 0.04$   | $\log M_{[\text{O III}]} / M_\odot$      | $6.21 \pm 0.11$  |



## Emission Line Measurements

| Line                              | $\log L$ (erg s <sup>-1</sup> )    | FWHM (km s <sup>-1</sup> )       | $\sigma$ (km s <sup>-1</sup> )  | EW (Å)                              |
|-----------------------------------|------------------------------------|----------------------------------|---------------------------------|-------------------------------------|
| H $\gamma$ Narrow                 | $38.83 \pm 0.25$                   | $307 \pm 63$                     | $136 \pm 26$                    | $2.74 \pm 1.21$                     |
| <b>H<math>\gamma</math> Broad</b> | —                                  | —                                | —                               | —                                   |
| [O III] 4364                      | —                                  | —                                | —                               | —                                   |
| He II Narrow                      | —                                  | —                                | —                               | —                                   |
| <b>He II Broad</b>                | —                                  | —                                | —                               | —                                   |
| H $\beta$ Narrow                  | $39.51 \pm 0.05$                   | $307 \pm 63$                     | $136 \pm 26$                    | $13.03 \pm 0.95$                    |
| <b>H<math>\beta</math> Broad</b>  | <b><math>39.49 \pm 0.10</math></b> | <b><math>1464 \pm 128</math></b> | <b><math>491 \pm 56</math></b>  | <b><math>11.73 \pm 1.75</math></b>  |
| [O III] 5007                      | $39.70 \pm 0.03$                   | $307 \pm 63$                     | $136 \pm 26$                    | $20.57 \pm 0.91$                    |
| He I Narrow                       | —                                  | —                                | —                               | —                                   |
| <b>He I Broad</b>                 | <b><math>39.87 \pm 0.09</math></b> | <b><math>9783 \pm 62</math></b>  | <b><math>4154 \pm 25</math></b> | <b><math>30.83 \pm 5.41</math></b>  |
| [O I] 6300                        | $38.84 \pm 0.13$                   | $308 \pm 62$                     | $128 \pm 25$                    | $2.87 \pm 0.49$                     |
| H $\alpha$ Narrow                 | $40.22 \pm 0.01$                   | $308 \pm 62$                     | $128 \pm 25$                    | $69.92 \pm 0.58$                    |
| <b>H<math>\alpha</math> Broad</b> | <b><math>40.78 \pm 0.01</math></b> | <b><math>3356 \pm 76</math></b>  | <b><math>2212 \pm 48</math></b> | <b><math>250.32 \pm 3.19</math></b> |
| [N II] 6585                       | $40.01 \pm 0.01$                   | $308 \pm 62$                     | $128 \pm 25$                    | $43.16 \pm 0.57$                    |
| [S II] 6718                       | $39.41 \pm 0.04$                   | $308 \pm 62$                     | $128 \pm 25$                    | $10.83 \pm 0.54$                    |
| [S II] 6732                       | $39.25 \pm 0.06$                   | $308 \pm 62$                     | $128 \pm 25$                    | $7.45 \pm 0.58$                     |

## Emission Summary

|                              |       |
|------------------------------|-------|
| H $\alpha$ broad SNR         | 6.39  |
| H $\beta$ broad SNR          | 1.35  |
| H $\gamma$ broad SNR         | 0.49  |
| AGN frac                     | 0.15  |
| Host frac                    | 0.85  |
| $\log L_{5100, \text{Host}}$ | 42.84 |
| Fe II/H $\beta$              | 2.83  |
| Fe II/[O III]                | 1.62  |

## Quality Flags

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