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Table 11NGC 5128 PN spectra – observed line fluxes.

| | 5615 (+297.6 | | 5615 5 (+297.6, (+2 | | #2 1 1.3, | F56 #3 5621 (+287.4, -448.7) | | F56 #4 5611 (+298.7, -405.0) | | F56 #5 5608 (+268.9, -394.1) | |
|------------------------------|-----------------|--------|------------------------|------------------|-----------------|---------------------------------------|------|---------------------------------------|------|---------------------------------------|------|
| Species λ (Å) | | ! | | -465.9) F Obs ± | | F _{Obs} ± | | F Obs ± | | F Obs ± | |
| | · | | | · | | 1 | | ODS | | , ODS | |
| [O II] | 3727 | 38 | 32 | 43 | 10 | 84 | 20 | 72 | 10 | 112 | 60 |
| [Ne III] | 3868 | 38 | 14 | 97 | 10 | 55 | 16 | 72 | 19 | 112 | 60 |
| [Ne III] + H _€ | 3970 | | | 29 | 6 | | | | | | |
| Ηδ | 4101 | | | 22 | 8 | | | | | | |
| Ηγ | 4340 | 36 | 13 | 48 | 9 | 43 | 14 | 31 | 13 | 46 | 48 |
| [O III] | 4363 | 50 | | 24 | 7 | .5 | | 01 | | | |
| He I | 4471 | | | 5 | 3 | | | | | | |
| He II | 4686 | | | 37 | 7 | | | | | | |
| Ηβ | 4861 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 |
| [O III] | 4959 | 298 | 27 | 469 | 32 | 276 | 35 | 332 | 49 | 549 | 64 |
| [O III] | 5007 | 867 | 69 | 1421 | 93 | 812 | 92 | 965 | 135 | 1606 | 174 |
| He I | 5876 | 007 | 03 | 8 | 4 | 012 | 72 | 24 | 7 | 1000 | -/. |
| [N II] | 6548 | 44 | 7 | 23 | 6 | 72 | 15 | 74 | 14 | | |
| Ha | 6562 | 392 | 32 | 396 | 26 | 440 | 51 | 412 | 58 | 420 | 47 |
| [N II] | 6583 | 147 | 14 | 78 | 7 | 284 | 34 | 246 | 35 | 25 | 10 |
| He I | 6678 | 1.17 | | 10 | 6 | 201 | 31 | 210 | 33 | 23 | 10 |
| [S II] | 6716 | | | 10 | ŭ | 39 | 30 | 21 | 8 | | |
| [S II] | 6730 | 13 | 7 | | | 20 | 11 | 11 | 6 | | |
| [Ar III] | 7133 | 17 | 10 | 12 | 4 | 21 | 11 | 59 | 13 | 39 | 34 |
| [O II] | 7325 | 1, | 10 | 22 | 6 | 104 | 35 | 28 | 12 | 33 | ٥. |
| | | | | | | 1 | | 1 | | | |
| $\log F(H\beta)$ | | -16.37 | 0.03 | -16.06 | 0.03 | -16.50 | 0.05 | -16.39 | 0.06 | -16.59 | 0.05 |
| m _{5007A} | l | 24.84 | 0.09 | 23.52 | 0.07 | 25.22 | 0.12 | 24.76 | 0.15 | 24.72 | 0.12 |
| | 1 | F56 : | #6 | F56 | #8 | F56 : | #9 | F56 # | ±10 | F56 # | 11 |
| | | 560 | 2 | 542 | .5 | 545 | 6 | 541 | 6 | 540 | 9 |
| | | (+247 | .7, | (+260 |).2, | (+235 | 5.0, | (+241 | .5, | (+240 |).2, |
| | | -372 | .5) | -326 | .0) | -312 | .2) | -281 | .6) | -279 | .3) |
| Species | λ (Å) | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± |
| [O II] | 3727 | 42 | 9 | 38 | 10 | | | 24 | 15 | 29 | 5 |
| [Ne III] | 3868 | 75 | 12 | 49 | 13 | | | 69 | 11 | 96 | 9 |
| [Ne III] + H∈ | 3970 | 52 | 8 | 31 | 16 | | | 53 | 31 | 47 | 23 |
| Ηδ | 4101 | 13 | 10 | 27 | 18 | | | 27 | 7 | 27 | 10 |
| Hy | 4340 | 43 | 7 | 42 | 10 | | | 43 | 8 | 48 | 9 |
| [O III] | 4363 | 73 | , | 72 | 10 | | | 73 | 3 | 15 | 4 |
| He I | 4471 | | | | | | | | | 13 | 7 |
| He II | 4686 | | | | | | | | | | |
| Hβ | 4861 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 |
| ııρ | +001 | 100 | U | 100 | U | 100 | U | 100 | U | 100 | U |

Homepage **Table of contents** ◆ Previous article Next article ▶ ARTICLE - Abstract - Full HTML - PDF (739.7 KB) - References - Online Material - Simbad Objects - NASA ADS Abstract Service METRICS Abstract views: 250 Full-text article: 160 since Tuesday, 29 May 2012 SERVICES Articles citing this article CrossRef (3) Same authors - Google Scholar - EDP Sciences database Recommend this article Send to my Kindle Download citation **RELATED ARTICLES** An imaging and spectroscopic study of the planetary nebulae in NGC 5128 (Centaurus A) A&A 574, A109 (2015) Chemical abundances of Planetary Nebulae in M 33 A&A 426, 779-786 (2004) The chemical composition of

> planetary nebulae and HII regions in NGC 3109 A&A 476, 745-758 (2007)

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Del.icio.us

Facebook

Mendeley

EDPS account Email-alert

| [O III] | | | | | | | | | | i | |
|---|---|---|---|--|---|---|---|--------------------|-----------------|------------------|------|
| | 4959 | 432 | 35 | 292 | 27 | 263 | 108 | 382 | 29 | 476 | 37 |
| [O III] | 5007 | 1273 | 100 | 865 | 78 | 794 | 311 | 1179 | 87 | 1370 | 103 |
| | | | | | | ,,,, | 011 | | | | |
| He I | 5876 | 14 | 3 | 33 | 8 | | | 26 | 8 | 11 | 7 |
| [N II] | 6548 | 39 | 5 | 76 | 9 | | | 29 | 5 | 59 | 11 |
| H <i>a</i> | 6562 | 468 | 37 | 362 | 33 | 301 | 123 | 388 | 29 | 336 | 77 |
| [N II] | 6583 | 149 | 13 | 233 | 22 | 51 | 36 | 113 | 10 | 161 | 35 |
| He I | 6678 | 16 | 5 | 18 | 11 | | | | - | | |
| | | 10 | , | | | | | | | | |
| [S II] | 6716 | | | 13 | 4 | | | | | | |
| [S II] | 6730 | | | 19 | 5 | | | 12 | 6 | 10 | 3 |
| [Ar III] | 7133 | 56 | 9 | 39 | 8 | | | 51 | 8 | 31 | 7 |
| [O II] | 7325 | 29 | 12 | 46 | 16 | | | 25 | 19 | | |
| [] | | | | | | | | | | | |
| $\log F(H\beta)$ | | -16.08 | 0.03 | -16.13 | 0.04 | -17.37 | 0.19 | -16.14 | 0.03 | -16.12 | 0.03 |
| m _{5007A} | | 23.70 | 0.09 | 24.23 | 0.10 | 27.43 | 0.48 | 23.93 | 0.08 | 23.71 | 0.08 |
| | | 25.70 | 0.05 | 27.23 | 0.10 | 27.73 | 0.40 | 25.75 | 0.00 | 25.71 | |
| | 1 | F56 # | 122 | F56 # | 12h | F56 # | 13h | F56 # | +1 <i>A</i> | F56 # | 15 |
| | | | | | | | | | | | |
| | | 541 | | 543 | | 541 | | 540 | | 542 | |
| | | (+221 | .9, | (+220 |).2, | (+201 | 1.5, | (+183 | 3.5, | (+169 | .1, |
| | | -245 | .1) | -242 | .0) | -225 | .7) | -217 | .4) | -200 | .2) |
| | 0. | _ | . 1 | | | l _ | | | | | |
| Species | λ (Å) | F Obs | ± | F _{Obs} | ± | F _{Obs} | ± | F _{Obs} | ± | F _{Obs} | ± |
| | 2727 | | I | 4.5 | | ۱ ۵. | 40 | 20 | | | |
| [O II] | 3727 | 77 | 52 | 15 | 11 | 31 | 12 | 28 | 11 | | |
| [Ne III] | 3868 | 129 | 27 | 32 | 11 | 82 | 14 | 84 | 11 | 55 | 12 |
| [Ne III] + | 2070 | | 40 | 27 | | 40 | 4.0 | | 40 | | |
| $H\epsilon$ | 3970 | 66 | 49 | 27 | 14 | 40 | 13 | 50 | 40 | | |
| Ηδ | 4101 | | | 15 | 8 | | | 26 | 9 | 26 | 13 |
| | | 41 | 12 | | | 40 | 1.4 | | | | |
| Hγ | 4340 | 41 | 13 | 36 | 9 | 40 | 14 | 30 | 11 | 44 | 13 |
| [O III] | 4363 | | | | | | | | | | |
| He I | 4471 | | | | | | | | | | |
| He II | 4686 | 57 | 13 | | | 13 | 11 | | | | |
| Ηβ | 4861 | | 0 | 100 | 0 | | 0 | 100 | 0 | 100 | 0 |
| • | | 100 | | | | 100 | | | | | |
| [O III] | 4959 | 684 | 97 | 180 | 20 | 529 | 50 | 445 | 41 | 366 | 45 |
| [O III] | 5007 | 1956 | 271 | 516 | 51 | 1540 | 140 | 1336 | 121 | 1083 | 128 |
| He I | 5876 | 20 | 11 | 16 | 8 | 15 | 6 | 23 | 6 | | |
| [N II] | 6548 | 111 | 19 | 77 | 9 | | | 67 | 9 | 24 | 8 |
| | | | | | | 202 | 26 | | | | |
| Ha | 6562 | 420 | 59 | 365 | 36 | 383 | 36 | 382 | 35 | 415 | 49 |
| [N II] | 6583 | 335 | 48 | 266 | 26 | 34 | 7 | 194 | 19 | 63 | 10 |
| He I | 6678 | | | | | 11 | 4 | | | | |
| [S II] | 6716 | | | | | | | | | | |
| [S II] | 6730 | | | | | | | | 5 | | 8 |
| | | 12 | ٥ | | | | | | | 20 | U |
| | | 12 | 9 | | _ | | | 11 | | 20 | |
| [Ar III] | 7133 | 31 | 8 | 32 | 7 | 19 | 8 | 33 | 7 | 20 21 | 8 |
| | | | | 32 20 | 7 12 | 19 | 8 | | | | |
| [Ar III] [O II] | 7133 | 31 69 | 8 20 | 20 | 12 | 1 | | 33 58 | 7 15 | 21 | 8 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 | 8 20 0.06 | 20 | 0.04 | -16.22 | 0.04 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] | 7133 | 31 69 | 8 20 | 20 | 12 | -16.22 | | 33 58 -16.11 | 7 15 | -16.21 | 8 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 23.97 | 8 20 0.06 0.15 | 20 -16.17 24.91 | 0.04 0.11 | -16.22 23.83 | 0.04 0.10 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 23.97 | 8 20 0.06 0.15 | 20 -16.17 24.91 F56 # | 12 0.04 0.11 | -16.22 23.83 F56 # | 0.04 0.10 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 23.97 | 8 20 0.06 0.15 | 20 -16.17 24.91 | 12 0.04 0.11 | -16.22 23.83 | 0.04 0.10 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 23.97 | 8 20 0.06 0.15 | 20 -16.17 24.91 F56 # | 12 0.04 0.11 #17 | -16.22 23.83 F56 # | 0.04 0.10 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 23.97 F56 # | 8 20 0.06 0.15 16 9 | 20 -16.17 24.91 F56 # 542 | 0.04 0.11 #17 !8 | -16.22 23.83 F56 # | 0.04 0.10 \$\delta 18 2 7.6, | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] log F(Hβ) m 5007A | 7133 7325 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 | 8 20 0.06 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 | 20 -16.17 24.91 F56 # 542 (+146 -145 | 12 0.04 0.11 #17 8 5.7, 5.7) | -16.22 23.83 F56 # 542 (+107 -151 | 0.04 0.10 \$\delta\$ 18 2 7.6, 1.4) | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] ${\log F(H\beta)}$ | 7133 | 31 69 -16.37 23.97 F56 # 541 (+139 | 8 20 0.06 0.15 16 9 | 20 -16.17 24.91 F56 # 542 (+146 | 0.04 0.11 #17 !8 | -16.22 23.83 F56 # 542 (+107 | 0.04 0.10 \$\delta 18 2 7.6, | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] log F(H\$\beta\$) m 5007A Species | 7133 7325 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 | 8 20 0.06 0.15 116 9 1.3, i.8) ± | 20 -16.17 24.91 F56 # 542 (+146 -145 | 12 0.04 0.11 #17 8 5.7, 5.7) | -16.22 23.83 F56 # 542 (+107 -151 | 0.04 0.10 \$\frac{1}{2}\$ 7.6, 1.4) | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [O II] [O II] log F(H\$\beta) m 5007A Species [O II] | 7133 7325 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F Obs | 8 20 0.06 0.15 16 9 0.3, i.8) ± 16 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs | 12 0.04 0.11 #17 18 5.7, 5.7) ± | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 \$18 2 7.6, 1.4) \$\pmu\$ | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] log F(H\$\beta\$) m 5007A Species | 7133 7325 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 | 8 20 0.06 0.15 116 9 1.3, i.8) ± | 20 -16.17 24.91 F56 # 542 (+146 -145 | 12 0.04 0.11 #17 8 5.7, 5.7) | -16.22 23.83 F56 # 542 (+107 -151 | 0.04 0.10 \$\frac{1}{2}\$ 7.6, 1.4) | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [O II] [O II] log F(H\$\beta) m 5007A Species [O II] | 7133 7325 \[\lambda \lambda (\hat{A}) \] 3727 3868 | 31 69 -16.37 23.97 F56 # 541 (+133 -175 F Obs | 8 20 0.06 0.15 16 9 1.3, 1.8) ± 16 12 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs | 12 0.04 0.11 #17 88 5.7, 5.7) ± | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] log F(H\$\beta) m 5007A Species [O II] [Ne III] | 7133 7325 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F Obs | 8 20 0.06 0.15 16 9 0.3, i.8) ± 16 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs | 12 0.04 0.11 #17 18 5.7, 5.7) ± | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 \$18 2 7.6, 1.4) \$\pmu\$ | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] log $F(H\beta)$ m_{5007A} Species [O II] [Ne III] [Ne III] + H ϵ | 7133 7325 \$\lambda\$ (\hat{A}) 3727 3868 3970 | 31 69 -16.37 23.97 F56 # 541 (+133 -175 F Obs | 8 20 0.06 0.15 16 9 1.3, 1.8) ± 16 12 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs | 12 0.04 0.11 #17 88 5.7, 5.7) ± | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| [Ar III] [O II] log $F(H\beta)$ m_{5007A} Species [O II] [Ne III] [Ne III] + H $_{\epsilon}$ H δ | 7133 7325 A (Å) 3727 3868 3970 4101 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F obs 41 48 16 | 8 20 0.06 0.15 16 9 0.3, i.8) ± 16 12 7 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 | 12 0.04 0.11 #17 18 5.7, 5.7) ± 10 10 | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \hline \\ log F(H\beta) \\ m_{5007A} \\ \hline \\ Species \\ \hline \\ [O II] \\ [Ne III] \\ [Ne III] \\ H_{\epsilon} \\ H_{\delta} \\ H_{\gamma} \\ \\ \end{bmatrix}$ | λ (Å) 3727 3868 3970 4101 4340 | 31 69 -16.37 23.97 F56 # 541 (+133 -175 F Obs | 8 20 0.06 0.15 16 9 1.3, 1.8) ± 16 12 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs | 12 0.04 0.11 #17 88 5.7, 5.7) ± | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \hline \\ log F(H\beta) \\ m_{5007A} \\ \hline \\ Species \\ \hline [O II] \\ [Ne III] \\ [Ne III] \\ H\epsilon \\ H\delta \\ H\gamma \\ [O III] \\ [O III] \\ \hline$ | 7133 7325 A (Å) 3727 3868 3970 4101 4340 4363 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F obs 41 48 16 | 8 20 0.06 0.15 16 9 0.3, i.8) ± 16 12 7 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 | 12 0.04 0.11 #17 18 5.7, 5.7) ± 10 10 | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \hline \\ log F(H\beta) \\ m_{5007A} \\ \hline \\ Species \\ \hline \\ [O II] \\ [Ne III] \\ [Ne III] \\ H_{\epsilon} \\ H_{\delta} \\ H_{\gamma} \\ \\ \end{bmatrix}$ | λ (Å) 3727 3868 3970 4101 4340 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F obs 41 48 16 | 8 20 0.06 0.15 16 9 0.3, i.8) ± 16 12 7 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 | 12 0.04 0.11 #17 18 5.7, 5.7) ± 10 10 | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \hline \\ log F(H\beta) \\ m_{5007A} \\ \hline \\ Species \\ \hline [O II] \\ [Ne III] \\ [Ne III] \\ H\epsilon \\ H\delta \\ H\gamma \\ [O III] \\ [O III] \\ \hline$ | 7133 7325 A (Å) 3727 3868 3970 4101 4340 4363 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F obs 41 48 16 | 8 20 0.06 0.15 16 9 0.3, i.8) ± 16 12 7 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 | 12 0.04 0.11 #17 18 5.7, 5.7) ± 10 10 | -16.22 23.83 F56 # 542 (+107 -151 F Obs | 0.04 0.10 118 2 7.6, 1.4) ± 18 21 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \\ log F(H\beta) \\ m_{5007A} \\ \\ \\ Species \\ [O II] \\ [Ne III] \\ [Ne III] \\ H\delta \\ H\gamma \\ [O III] \\ He I \\ He II \\ He II \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$ | 7133 7325 A (Å) 3727 3868 3970 4101 4340 4363 4471 4686 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F Obs 41 48 16 | 8 20 0.06 0.15 0.3, i.8) ± 16 12 7 7 7 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 30 | 12 0.04 0.11 #17 .8 5.7, 5.7) ± 10 10 | -16.22 23.83 F56 # 542 (+107 -151 F Obs 26 88 29 | 0.04 0.10 \$\frac{1}{2}\$ 2 7.6, 1.4) \$\frac{1}{2}\$ 18 21 15 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \\ log F(H\beta) \\ m \\ 5007A \\ \\ \\ Species \\ \\ [O II] \\ [Ne III] \\ [Ne III] \\ + \\ H\delta \\ H\gamma \\ [O III] \\ He I \\ He II \\ H\beta \\ \\ $ | λ (Å) 3727 3868 3970 4101 4340 4363 4471 4686 4861 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F Obs 41 48 16 37 20 | 8 20 0.06 0.15 616 9 0.3, 6.8) ± | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 30 | 12 0.04 0.11 #17 .8 5.7, 5.7) ± 10 10 8 | -16.22 23.83 F56 # 542 (+107 -151 F Obs 26 88 29 | 0.04 0.10 18 2 7.6, 1.4) ± 18 21 15 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |
| $[Ar III] \\ [O II] \\ \\ log F(H\beta) \\ m_{5007A} \\ \\ \\ Species \\ [O II] \\ [Ne III] \\ [Ne III] \\ H\delta \\ H\gamma \\ [O III] \\ He I \\ He II \\ He II \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$ | 7133 7325 A (Å) 3727 3868 3970 4101 4340 4363 4471 4686 | 31 69 -16.37 23.97 F56 # 541 (+139 -175 F Obs 41 48 16 | 8 20 0.06 0.15 0.3, i.8) ± 16 12 7 7 7 | 20 -16.17 24.91 F56 # 542 (+146 -145 F Obs 26 18 30 | 12 0.04 0.11 #17 .8 5.7, 5.7) ± 10 10 | -16.22 23.83 F56 # 542 (+107 -151 F Obs 26 88 29 | 0.04 0.10 \$\frac{1}{2}\$ 2 7.6, 1.4) \$\frac{1}{2}\$ 18 21 15 | 33 58 -16.11 | 7 15 0.04 | -16.21 | 0.05 |

| He I [N II] Ha [N II] He I [S II] [S II] [Ar III] [O II] | 5876 6548 6562 6583 6678 6716 6730 7133 7325 | 24 36 415 147 11 24 | 9 7 34 14 6 8 | 30 356 | 12 42 | 28 102 447 323 | 13 23 79 58 | | | | |
|--|--|------------------------------------|------------------------------|---------------------|--------------|-------------------------|----------------------|------------|---------|------------|---------|
| log F(Hβ) m _{5007A} | | -16.15 24.07 | 0.03 0.09 | -16.19 24.41 | 0.05 0.13 | -16.35 24.34 | 0.08 0.19 | | | | |
| | | F42 450 | | F42 450 (-362 |)2 | F42 = 452 (-345 | 7 | F42 = | | F42 : | |
| | | (-393.2, | -84.9) | -71 | | -126 | | (-318.8, | -79.3) | (-278.7, | -34.0) |
| Species | λ (Å) | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± |
| [O II] [Ne III] | 3727 3868 | 61 | 8 | 75 134 | 37 17 | 19 | 4 | 21 28 | 6 4 | 44 42 | 34 7 |
| [Ne III] + H ϵ | 3970 | 33 | 6 | 51 | 8 | | | 20 | 3 | | |
| Ηδ | 4101 | 17 | 5 | | | 19 | 10 | 17 | 4 | | _ |
| Hγ [O III] | 4340 4363 | 37 | 6 | 45 | 29 | 43 | 7 | 42 | 5 | 37 | 7 |
| He I | 4471 | | | | | | | 5 | 2 | | |
| He II | 4686 | 100 | 0 | 36 | 8 | 100 | 0 | 100 | 0 | 100 | 0 |
| Η <i>β</i> [Ο ΙΙΙ] | 4861 4959 | 100 350 | 0 24 | 100 625 | 0 60 | 100 182 | 0 13 | 100 222 | 0 12 | 100 289 | 0 25 |
| [O III] | 5007 | 1078 | 70 | 1872 | 177 | 582 | 38 | 663 | 33 | 778 | 64 |
| He I | 5876 | 28 | 8 | | | | | 7 | 2 | 32 | 11 |
| [N II] | 6548 | | | | | 65 | 9 | | | | |
| На | 6562 | 367 | 25 | 462 | 46 | 437 | 29 | 361 | 18 | 349 | 30 |
| [N II] | 6583 | 78 | 7 | 231 | 26 | 203 | 15 | 147 | 8 | 18 | 7 |
| [S II] | 6716 | 20 | 5 | | | | | 6 | 2 | | |
| [S II] | 6730 | 27 | 7 | | | 27 | | 12 | 4 | 26 | 11 |
| [Ar III] [O II] | 7133 7325 | 23 | 6 | | | 37 | 8 | 30 | 5 | 37 | 6 |
| | 7 3 2 3 | | | l | | 1 | | | | 1 3/ | |
| $\log F(H\beta)$ | | -16.56 | 0.03 | -16.78 | 0.04 | -16.62 | 0.03 | -16.43 | 0.02 | -16.62 | 0.04 |
| m _{5007A} | | 25.09 | 0.07 | 25.04 | 0.10 | 25.89 | 0.07 | 25.27 | 0.05 | 25.59 | 0.09 |
| | | F42 | #7 | F42 | #8 | F42 : | #9 | F42 # | 10 | F42 # | £11 |
| | | 051 | | 421 | | 424 | | 421 | | 050 | |
| | | (-253.4, | _81 8) | (-229 | | (-209.0, | -72 3) | (-179 | | (-165.4, | -52 4) |
| | | (233.1, | 01.0) | -119 | 9.5) | 203.0, | , 2.3) | -119 | .8) | 103.1, | 32.1) |
| Species | λ (Å) | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± |
| [O II] | 3727 | | | 40 | 7 | 12 | 8 | 48 | 4 | | |
| [Ne III] | 3868 | 80 | 9 | 78 | 8 | 66 | 10 | 54 | 5 | 45 | 7 |
| [Ne III] + | 3970 | 36 | 7 | 31 | 7 | 27 | 10 | 18 | 3 | | |
| H€ | | | | | | | | | | 40 | - |
| Η <i>δ</i> Η <i>γ</i> | 4101 4340 | 20 40 | 6 7 | 18 39 | 6 7 | 50 | 33 | 22 44 | 5 7 | 19 43 | 5 10 |
| [O III] | 4363 | 40 | , | 33 | , | 30 | 33 | 10 | 6 | 45 | 10 |
| He I | 4471 | | | | | | | | | | |
| He II | 4686 | 23 | 8 | | | | | 20 | 4 | | |
| Н $oldsymbol{eta}$ | 4861 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 |
| [O III] | 4959 | 512 | 42 | 431 | 31 | 339 | 30 | 271 | 14 | 313 | 26 |
| [O III] | 5007 | 1522 | 121 | 1315 | 90 | 1081 | 90 | 827 | 41 | 973 | 78 |
| He I [N II] | 5876 6548 | | | | | 29 | 12 | 58 | 20 | 117 | 24 |
| [N 11] На | 6562 | 410 | 34 | 390 | 28 | 412 | 37 | 447 | 23 | 372 | 33 |
| | | | | | | | | | | | |

| [N II] He I [S II] [S II] [Ar III] | 6583 6678 6716 6730 7133 7325 | 142 | 16 | 161 | 14 | 118 48 72 | 14 10 31 | 278 15 22 37 29 | 15 4 5 7 6 | 226 16 84 | 21 7 25 |
|---|--|-------------------------------|----------------------|-------------------------------|------------------------|---------------------------|-----------------------|-----------------------------|------------------------|---------------------------|----------------|
| log <i>F</i> (Hβ) m _{5007A} | | -16.63 24.87 | 0.03 0.09 | -16.60 24.97 | 0.03 | -16.70 25.43 | 0.04 0.09 | -16.38 24.90 | 0.02 0.05 | -16.59 25.25 | 0.04 |
| | | F42 # 421 (-135 -115 | 4 5.0, | F42 # 424 (-115 -103 | 8 5.2, | F42 # 421 (-99.8, - | 0 | F42 # 424 (-68.7, - | 5 | F42 # 420 (-48.4, - | 7 |
| Species | λ (Å) | F _{Obs} | ± | F Obs | ± | F Obs | ± | F Obs | ± | F Obs | ± |
| [O II] [Ne III] [Ne III] + | 3727 3868 3970 | 114 64 | 15 10 | 56 151 53 | 32 80 32 | 50 160 | 38 32 | 43 | 9 | 65 100 34 | 14 16 10 |
| Ηδ Hy [O III] He I | 4101 4340 4363 4471 | 40 | 12 | | | | | 31 | 17 | 44 19 | 15 8 |
| He II Hβ [O III] [O III] He I | 4686 4861 4959 5007 5876 | 14 100 569 1747 | 12 0 57 172 | 31 100 690 2185 | 24 0 356 1125 | 58 100 796 2438 | 29 0 140 426 | 100 270 872 | 0 33 101 | 100 574 1749 | 0 74 224 |
| [N II] Ha [N II] He I | 6548 6562 6583 6678 | 504 197 | 51 23 | 507 246 | 263 130 | 493 171 | 89 36 | 432 | 51 | 64 385 192 | 16 52 30 |
| [S II] [S II] [Ar III] [O II] | 6716 6730 7133 7325 | | | | | | | 35 | 10 | 44 | 19 |
| log <i>F</i> (Hβ) m _{5007A} | | -16.73 24.97 | 0.04 0.11 | -17.10 25.66 | 0.22 0.56 | -16.88 24.99 | 0.08 0.19 | -16.64 25.51 | 0.05 0.13 | -16.65 24.77 | 0.06 |
| | | F42 # 426 (-13.9, - | 4 | F42 # 421 (-5.9, - | 2 | | | | | | |
| Species | λ (Å) | F Obs | ± | F Obs | ± | | | | | | |
| [O II] [Ne III] [Ne III] + H ϵ | 3727 3868 3970 | | | 40 | 9 | | | | | | |
| Ηδ Hy [O III] He I He II | 4101 4340 4363 4471 4686 | 34 | 8 | 46 17 | 11 | | | | | | |
| Hβ [O III] [O III] He I | 4861 4959 5007 5876 | 100 210 608 | 0 16 42 | 100 553 1616 | 0 61 175 | | | | | | |
| [N II] Ha [N II] He I [S II] | 6548 6562 6583 6678 6716 | 51 495 191 | 11 36 18 | 583 69 | 65 16 | | | | | | |

| [S II] [Ar III] [O II] | 6730 7133 7325 | | | | | | | | | | |
|---|--|--|--|---|---|---|--|---|---|--|----------|
| log <i>F</i> (H <i>β</i>) <i>m</i> _{5007A} | | -16.61 25.81 | 0.03 0.07 | -16.65 24.85 | 0.05 0.12 | | | | | | |
| | | F34 #1 2606 (-497.0, -921.7) | | 2606 2603 (-497.0, (-548.8, | | F34 #4 2607 (-446.9, -860.0) | | F34 #7 3403 (-433.1, -790.8) | | F34 #11 3404 (-409.1, -693.3) | |
| Species | λ (Å) | F Obs | ± | F _{Obs} | ± | F Obs | ± | F Obs | ± | F Obs | ± |
| [O II] [Ne III] | 3727 3868 | 64 72 | 7 5 | 64 45 | 7 5 | 48 49 | 9 5 | 55 98 | 28 6 | 30 95 | 11 11 |
| [Ne III] + H_{ϵ} | 3970 | 25 | 4 | | | 35 | 6 | 39 | 5 | 28 | 7 |
| Η <i>δ</i> Η <i>γ</i> | 4101 4340 | 23 35 | 4 3 | 16 44 | 4 5 | 24 46 | 4 5 | 25 43 | 5 6 | 24 49 | 6 8 |
| [O III] He I | 4363 4471 | | | 9 17 | 4 4 | | | 8 9 | 2 | 18 18 | 9 7 |
| He II | 4686 | 2 | 2 | 8 | 4 | | | t | 3 | 48 | 9 |
| Нβ | 4861 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 | 100 | 0 |
| [O III] | 4959 | 404 | 15 | 261 | 13 | 319 | 16 | 535 | 21 | 530 | 45 |
| [O III] He I | 5007 5876 | 1214 | 43 | 782 32 | 37 9 | 972 | 45 | 1591 | 62 | 1574 | 130 |
| [N II] | 6548 | 33 | 9 | 32 | 9 | | | | | | |
| На | 6562 | 410 | 17 | 528 | 28 | 454 | 24 | 447 | 20 | 421 | 43 |
| [N II] | 6583 | 152 | 9 | 108 | 12 | 151 | 11 | 116 | 9 | 27 | 11 |
| He I | 6678 | | | 26 | 6 | | | | | 8 | 8 |
| [S II] [S II] | 6716 6730 | | | | | | | | | | |
| [Ar III] | 7133 | 6 | 4 | | | 39 | 10 | 37 | 7 | | |
| [O II] | 7325 | 6 | 5 | | | 33 | 16 | | | | |
| | | | | | | | | | | | |
| log F(Hβ) m _{5007A} | | -16.56 24.96 | 0.02 | -16.70 25.78 | 0.03 0.05 | -16.69 25.51 | 0.03 0.05 | -16.59 24.73 | 0.03 0.04 | -16.94 25.62 | 0.05 |
| | | 24.96 F34 # | 0.04 | 25.78 F34 # | 0.05 #14 | 25.51 F34 # | 0.05 | 24.73 F34 # | 0.04 | | |
| | | 24.96 | 0.04 12 5 1.4, | 25.78 | 0.05 #14 95 8,3, | 25.51 | 0.05 | 24.73 | 0.04 16 6 | | |
| | λ (Å) | F34 # 340 (-424 -682 | 0.04 12 5 1.4, | 25.78 F34 # 350 (-458 | 0.05 #14 95 8,3, | 25.51 F34 # 350 (-490 | 0.05 | 24.73 F34 # 350 (-434 | 0.04 16 6 | 25.62 | |
| Species [O II] | 3727 | F34 # 340 (-424 -682 | 0.04 £12 5 1.4, 1.1) ± | 25.78 F34 # 350 (-458 -622 | 0.05 #14 95 8, 3, | 25.51 F34 # 350 (-490 -611 | 0.05 | 24.73 F34 # 350 (-434 -592 | 0.04 16 6 1.5, .1) | 25.62 | |
| Species [O II] [Ne III] | i | F34 # 340 (-424 -682 | 0.04 £12 5 1.4, 1.1) | 25.78 F34 # 350 (-458 -622 | 0.05 #14 95 3, 3, 2.8) | 25.51 F34 # 350 (-490 -611 | 0.05 | 24.73 F34 # 350 (-434 -592 | 0.04 | 25.62 | |
| Species [O II] [Ne III] + | 3727 | F34 # 340 (-424 -682 F Obs 48 | 0.04 £12 5 1.4, 1.1) ± | F34 # 350 (-458 -622 F Obs 38 | 0.05 #14 95 8,3, 8.8) | F34 # 350 (-490 -611 F Obs | 0.05 115 4 1.7, .0) | 24.73 F34 # 350 (-434 -592 F _{Obs} | 0.04 16 6 4.5, .1) ± 16 | 25.62 | |
| Species [O II] [Ne III] | 3727 3868 | F34 # 340 (-424 -682 F Obs 48 | 0.04 £12 5 1.4, 1.1) ± | F34 # 350 (-458 -622 F obs 66 | 0.05 #14 15 3, 3, 8) ± 4 5 | F34 # 350 (-490 -611 F Obs | 0.05 115 4 1.7, .0) | F34 # 350 (-434 -592 F Obs 138 111 | 0.04 16 6 1.5,1) | 25.62 | |
| $\frac{\text{Species}}{\text{[O II]}}$ $\frac{\text{[Ne III]}}{\text{[Ne III]}} + \text{H}_{\epsilon}$ H_{δ} H_{γ} | 3727 3868 3970 4101 4340 | F34 # 340 (-424 -682 F Obs 48 | 0.04 £12 5 1.4, 1.1) ± | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 | 0.05 #14 15 3, 3,8) ± 4 5 4 10 5 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 | 0.05 4 1.7,0) ± 9 6 6 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 | 0.04 0.04 6 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H_{ϵ} H δ H γ [O III] | 3727 3868 3970 4101 4340 4363 | 24.96 F34 # 340 (-424 -682 F Obs 48 34 | 0.04 #12 5 1.4, 1) ± 16 7 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 | 0.05 #14 95 9, 3, 3, 9.8) ± 4 5 4 10 5 3 | 25.51 F34 # 350 (-490 -611 F Obs | 0.05 115 4 1.77, .00) ± 9 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 | 0.04 16 6 1.5, .1) ± 16 14 9 | 25.62 | |
| Species [O II] [Ne III] + H_{ϵ} H δ H γ [O III] He I | 3727 3868 3970 4101 4340 4363 4471 | 24.96 F34 # 340 (-424 -682 F obs 48 34 | 0.04 t12 5 1.4, 1.1) ± 16 7 8 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 | 0.05 #14 15 3, 3,8) ± 4 5 4 10 5 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 | 0.05 1.15 4 1.7, 0.0) ± 9 6 6 5 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 | 0.04 t16 6 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H_{ϵ} H δ H γ [O III] | 3727 3868 3970 4101 4340 4363 | 24.96 F34 # 340 (-424 -682 F Obs 48 34 | 0.04 #12 5 1.4, 1) ± 16 7 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 | 0.05 #14 95 9, 3, 3, 9.8) ± 4 5 4 10 5 3 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 | 0.05 4 1.7,0) ± 9 6 6 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 | 0.04 0.04 6 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H ϵ H δ H γ [O III] He I He II | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 | 24.96 F34 # 340 (-424 -682 F obs 48 34 35 | 0.04 t12 5 1.4, 1.1) t 16 7 8 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 | 0.05 #14 95 93, 3, 9.89) ± 4 5 4 10 5 3 3 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 | 0.05 15 4 1.7, .0) ± 9 6 6 5 15 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 | 0.04 16 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H ϵ H δ H γ [O III] He I He II H β [O III] [O III] | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 | 24.96 F34 # 340 (-424 -682 F obs 48 34 35 45 100 477 1426 | 0.04 \$12 5 1.4, 1.1) \$16 7 8 9 0 45 132 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 | 0.05 #14 15 3, 3, 2.8) ± 4 5 4 10 5 3 3 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 | 0.05 15 4 1.7, .0) ± 9 6 6 5 15 0 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 | 0.04 16 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H ϵ H δ H γ [O III] He I He II H β [O III] [O III] He I | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 5876 | 24.96 F34 # 340 (-424 -682 F obs 48 34 35 45 100 477 | 0.04 \$12 5 1.4, 1.1) \$\pmu\$ 16 7 8 9 0 45 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 100 403 | 0.05 #14 15 3, 3, 4.8) # 4 5 4 10 5 3 0 18 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 455 | 0.05 4 0.7, 0.0) ± 9 6 6 5 15 0 30 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 532 1647 | 0.04 16 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H ϵ H δ H γ [O III] He I He II H β [O III] [O III] He I [N II] | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 5876 6548 | 24.96 F34 # 340 (-424 -682 F obs 48 34 35 45 100 477 1426 49 | 0.04 \$12 5 1.4, 1.1) \$16 7 8 9 0 45 132 25 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 100 403 1193 | 0.05 #14 15 3, 3, 4.8) # 4 5 4 10 5 3 0 18 53 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 455 1349 | 0.05 4 0.7, 0.0) ± 9 6 6 5 15 0 30 87 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 532 1647 88 | 0.04 16 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + H ϵ H δ H γ [O III] He I He II H β [O III] [O III] He I | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 5876 | 24.96 F34 # 340 (-424 -682 F obs 48 34 35 45 100 477 1426 | 0.04 \$12 5 1.4, 1.1) \$16 7 8 9 0 45 132 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 100 403 | 0.05 #14 15 3, 3, 4.8) # 4 5 4 10 5 3 0 18 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 455 | 0.05 4 0.7, 0.0) ± 9 6 6 5 15 0 30 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 532 1647 | 0.04 16 6 6 6 6 6 6 6 6 | 25.62 | |
| Species [O II] [Ne III] + $H\epsilon$ $H\delta$ Hy [O III] He II He II He II $H(\theta)$ [O III] $H(\theta)$ | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 5876 6548 6562 | 24.96 F34 # 340 (-424 -682 F Obs 48 34 35 45 100 477 1426 49 321 | 0.04 12 15 1.4, 11) 16 7 8 9 0 45 132 25 30 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 100 403 1193 | 0.05 #14 15 3, 3,8) # 4 5 4 10 5 3 0 18 53 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 455 1349 | 0.05 15 4 0.7, 0) 9 6 6 5 15 0 30 87 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 532 1647 88 458 | 0.04 16 6 1.5, | 25.62 | |
| Species [O II] [Ne III] + $H\epsilon$ $H\delta$ Hy [O III] He II $H\beta$ [O III] Ho III | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 5876 6548 6562 6583 6678 6716 | 24.96 F34 # 340 (-424 -682 F Obs 48 34 35 45 100 477 1426 49 321 | 0.04 12 15 1.4, 11) 16 7 8 9 0 45 132 25 30 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 100 403 1193 | 0.05 #14 15 3, 3,8) # 4 5 4 10 5 3 0 18 53 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 455 1349 | 0.05 15 4 0.7, 0) 9 6 6 5 15 0 30 87 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 532 1647 88 458 418 | 0.04 16 6 5.5, | 25.62 | |
| Species [O II] [Ne III] + $H\delta$ Hy [O III] He II He II [O III] [O III] He I [N II] He I [N II] He I | 3727 3868 3970 4101 4340 4363 4471 4686 4861 4959 5007 5876 6548 6562 6583 6678 | 24.96 F34 # 340 (-424 -682 F Obs 48 34 35 45 100 477 1426 49 321 | 0.04 12 15 1.4, 11) 16 7 8 9 0 45 132 25 30 | 25.78 F34 # 350 (-458 -622 F Obs 38 66 30 15 47 7 5 100 403 1193 | 0.05 #14 15 3, 3,8) # 4 5 4 10 5 3 0 18 53 | 25.51 F34 # 350 (-490 -611 F Obs 93 20 45 13 21 100 455 1349 | 0.05 15 4 0.7, 0) 9 6 6 5 15 0 30 87 | 24.73 F34 # 350 (-434 -592 F Obs 138 111 46 46 25 47 100 532 1647 88 458 | 0.04 16 6 1.5, | 25.62 | |

| [O II] | 7325 | 57 | 26 | | | | | | | |
|--------------------|------|-------|------|-------|------|--------|------|-------|------|--|
| $\log F(H\beta)$ | | | | | | -16.83 | | | | |
| m _{5007A} | | 25.84 | 0.10 | 25.16 | 0.05 | 25.50 | 0.07 | 25.81 | 0.10 | |

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