## 1. Reduction in CUBISM

We reduced the 25 HII regions in CUBISM (Kennicut et al. 2003, Smith et al. 2004, Smith et al. 2007). The advantage of using CUBISM is that it allowed us to define the 2-D spatial region over which we wanted to extract spectra, thus allowing us to increase the signal-to-noise of the spectra by extracting over the brightest part of the H II regions. For each H II region, we constructed a data cube. Global bad pixels were removed manually; record level bad pixels that deviated by $5\sigma$ were removed automatically within CUBISM. In CUBISM, the native pixel size is 2.26 arcsec pixel$^{-1}$ for spectra taken in the SH module. We varied our extraction aperture size due to the differences in size of the grid over the HII regions. Table 1 lists the HII region and the extraction aperture size.

## REFERENCES

Kennicutt, R.C. et al., 2003, PASP, 115, 928

Smith, J.D.T. et al., 2004, ApJS, 154, 199

Smith, J.D.T. et al., 2007, PASP, submitted

Table 1. CUBISM Extraction Aperture Sizes

| H II Region | Aperture size (pixel$^2$) |
|---|---|
| 4 | 6 x 6 |
| 27 | 6 x 4 |
| 32 | 6 x 6 |
| 33 | 6 x 6 |
| 42 | 6 x 4 |
| 45 | 10 x 6 |
| 62 | 6 x 6 |
| 79 | 6 x 6 |
| 87e | 6 x 6 |
| 88w | 6 x 6 |
| 95 | 6 x 6 |
| 214 | 6 x 6 |
| 230 | 6 x 6 |
| 251 | 6 x 6 |
| 277 | 10 x 6 |
| 280 | 9 x 8 |
| 301 | 6 x 6 |
| 302 | 6 x 6 |
| 623 | 6 x 6 |
| 638 | 9 x 6 |
| 651 | 6 x 6 |

Table 1—Continued

| H II Region | Aperture size (pixel$^2$) |
|---|---|
| 691 | 6 x 6 |
| 702 | 6 x 4 |
| 710 | 6 x 6 |
| 740w | 6 x 6 |