

Calibration of the ACS Emission-Line Filters

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Abstract. On-orbit calibration of the ACS emission-line filters F502N, F658N, and F660N have been made using a bright portion of the Orion Nebula as a reference source. This calibration is important because the conditions for pre-launch measurement of the filter profiles are not those in the ACS. The results of this work allow an absolute calibration of the surface brightness of targets in the [O III] 5007 Å, H α 6563 Å, and [N II] 6583 Å lines. It is essential that if accurate determination of the H α 6563 Å line is desired, one must make observations in both the F658N and F660N filters since the former can be strongly contaminated by [N II] emission.

1. Note

A complete report on this study has already been published (O'Dell 2004), and will not be repeated here.

References

O'Dell, C. R. 2004, PASP, 116, 729