RECENT ROCKET OBSERVATIONS OF THE ULTRAVIOLET SPECTRUM OF THE ZODIACAL LIGHT

P.D. Feldman, R.P. Cebula, P.D. Tennyson, and R.C. Henry Department of Physics and Astronomy The Johns Hopkins University Baltimore, MD 21218 U.S.A.

## ABSTRACT

Observations of the spectrum of the zodiacal light in the wavelength range 1800-3000 % have been obtained in two recent sounding rocket experiments. The September 1979 observation was made close to the ecliptic plane at elongation angles of 20° and 28° and with a spectral resolution of 25 %, while in April 1981 the elongation was 125° (inclination 60°), and the spectral resolution 50 %. Both observations confirm the slight reddening in the ultraviolet reported previously and show the same dependence on elongation as in the visible. There appears to be some structure in the ultraviolet albedo of the dust grains near 2800 % but the exact nature of this structure cannot be determined at the low spectral resolution of the present observations. Detailed descriptions of the two observations has been given by Cebula and Feldman (1982) and Tennyson (1983), respectively.

## REFERENCES

Cebula, R.P., Feldman, P.D.: 1982, Astrophys. J., 263, 987-992. Tennyson, P.D.: 1983, Ph.D. Dissertation, The Johns Hopkins University, chapter 7.

31

R. H. Giese and P. Lamy (eds.), Properties and Interactions of Interplanetary Dust, 31.

© 1985 by D. Reidel Publishing Company.