



The Near Infrared Spectrum of Miranda

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Abstract

We present a spectrum in band H and K of Uranus' small satellite Miranda observed in August 2000 and August 2001 which reveals strong water signatures. The observations were realized at the Palomar Observatory with the PHARO instrument. This Near Infrared Spectrum combined with the data from Bauer et al. (2002) is present. We study the possible presence of volatiles like ammonia hydrate.

References

- [1] Bauer, J. M., Roush, T. L., Geballe, T. R., Meech, K. J. Owen, T. C., Vacca, W. D., Rayner, J. T. and Jim, K. T. C., 2002. The Near Infrared Spectrum : Evidence of Crystalline Water Ice. *Icarus* 158, Issue 1, 178-190.
- [2] Brown, R. H, and R. N. Clark 1984. Surface of Miranda, Identification of water ice. *Icarus* 58, 288-292