

# Accepted Manuscript

Cassini-VIMS observations of Saturn's main rings: II. A spectrophotometric study by means of Monte Carlo ray-tracing and Hapke's theory.

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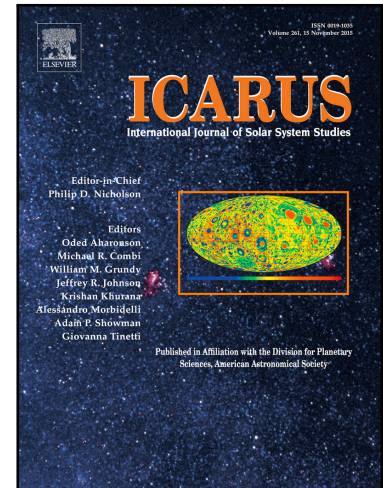
PII: S0019-1035(18)30030-7  
DOI: <https://doi.org/10.1016/j.icarus.2018.07.010>  
Reference: YICAR 12959

To appear in: *Icarus*

Received date: 18 January 2018  
Revised date: 19 June 2018  
Accepted date: 13 July 2018

Please cite this article as: M. Ciarniello, G. Filacchione, E. D'Aversa, F. Capaccioni, P.D. Nicholson, J.N. Cuzzi, R.N. Clark, M.M. Hedman, C.M. Dalle Ore, P. Cerroni, C. Plainaki, L.J. Spilker, Cassini-VIMS observations of Saturn's main rings: II. A spectrophotometric study by means of Monte Carlo ray-tracing and Hapke's theory., *Icarus* (2018), doi: <https://doi.org/10.1016/j.icarus.2018.07.010>

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**Highlights**

- Ring spectrophotometric behaviour is investigated on VIMS-Cassini radial mosaics.
- Light scattering models are used to infer ring composition and physical properties.
- A mixture of water ice, tholins and a broad-band absorber(s) provides the best-fit.
- The distribution of the broad-band absorber(s) is compatible with an exogenous origin.
- Tholins? distribution suggests an intrinsic origin.

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