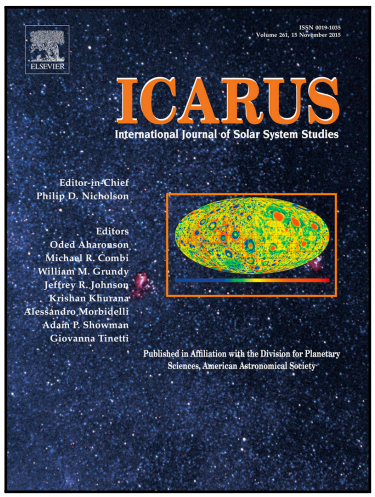

Cassini-VIMS observations of Saturn's main rings: II. A spectrophotometric study by means of Monte Carlo ray-tracing and Hapke's theory.

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

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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.