



THE COVER PHOTOGRAPH

Cassini pierced the ring plane and rounded Saturn a second time on 27 October 2004, capturing this view of the unilluminated portion of the rings. A portion of the planet's atmosphere is visible here, as is its shadow on the surface of the rings. The image was taken with the wide-angle camera from a distance of about 618,000 km (384,000 miles) from Saturn through a filter sensitive to wavelengths of infrared light centered at 1001 nm. Courtesy of the Cassini Imaging Team and NASA/JPL/Space Science Institute. A review of dusty plasma effects in Saturn's magnetosphere by M. Horányi, T. W. Hartquist, O. Havnes, D. A. Mendis, and G. E. Morfill appears in this issue.