

Dr. Joseph M. Davila

Dr. Joseph M. Davila earned a BS in Mechanical Engineering from Lamar University, Beaumont, TX in 1972, a BS in Physics from the University of California, Irvine in 1978 and a PhD in Astronomy from the University of Arizona in 1982. Dr. Davila was Principal Investigator for the Solar Extreme-ultraviolet R Telescope and Spectrograph (SERTS) and has conducted research in the structure of the solar corona.

His research interests have included the linear and non-linear theory of hydromagnetic waves; hydromagnetic instabilities due to energetic particle beams, resonance absorption in inhomogeneous plasmas, the acceleration of high speed wind streams in solar and stellar coronal holes, and plasma heating in closed magnetic structures. Dr. Davila has also published research on the acceleration of cosmic rays, the transport of energetic particles within the Galaxy, the modulation of Galactic cosmic rays by the solar wind and the propagation of solar cosmic rays in the interplanetary medium.

Dr. Davila is currently an Astrophysicist in the Solar Physics Branch at Goddard Space Flight Center in Greenbelt, Maryland and he is a member of the American Astronomical