

Empirical Model of the Transit Time of Full Halo Coronal Mass Ejections

A. Mahrous (1), M. El-Nawawy (2), N. Ahmed

(1) Helwan University, Faculty of Science, Physics Dept., Cairo, Egypt
(ayman.mahrous@gmail.com).

(2) Cairo University, Faculty of Science, Astronomy Dept., Cairo, Egypt

We describe an empirical model to predict the 1 AU arrival time of two classes of CMEs. The developed model is based on the effective accelerations described by Goblswamy , N. et al (2000). The used data includes CMEs of wider range of initial velocities by considering all full halo CMEs recorded by SOHO/ LASCO coronagraph until the end of 2006. This study may be help to discuss the question of whether two classes of CMEs exist.