



CWSF 2005 - Vancouver, British Columbia



Jennifer Loong

Oh-Dee: Orbit Determination

Division: Engineering & Computing Sciences

Category: Senior

Region: Greater Vancouver
City: Richmond, BC
School: York House School

Abstract: This is a software program that can determine the orbit of any observable

asteroid in the solar system, using the Laplacian Method. Only 3 observations are needed prior to writing the program in IDL syntax. The results generated by OD are called orbital elements, which depict the size,

shape and orientation of the orbit in detail.

Awards	Value
Award for Excellence in Astronomy - Senior	\$200
Sponsor: Royal Astronomical Society of Canada	
International Summer School for Young Physicists Award	\$2 500
Sponsor: Perimeter Institute for Theoretical Physics	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Bronze Medal - Engineering - Senior	\$300
Sponsor: Youth Science Foundation Canada	
Total	\$4 000



