

CWSF 2005 - Vancouver, British Columbia

Mate Bezdek

Planets Guarded by Satellites

Photo removed
by request.

Division: Physical & Mathematical Sciences

Category: Junior

Region: Calgary Youth

City: Calgary, AB

School: St. Brigid School

Abstract: I solve the satellite problem for arbitrary family of disjoint unit circles in the plane and for 2D-planets that are unions of close unit circles. In the space I prove Hadwiger's satellite conjecture for fat 3D-planets and for 3D-planets that are unions of sufficiently close unit spheres.

Awards	Value
Canadian Mathematical Society Award - Junior Sponsor: Canadian Mathematical Society	\$250
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Physical & Mathematical Sciences - Junior Sponsor: Encana Corporation	\$1 500
Total	\$3 750