

## CWSF 2005 - Vancouver, British Columbia

## Mate Bezdek

## **Planets Guarded by Satellites**

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

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