

CWSF 2006 - Saguenay, Québec



Daniel Bezdek

Set a Light Trap - the Penrose Puzzle

Division: International

Category: Intermediate

Region: Calgary Youth

City: Calgary, AB

School: Father Lacombe School

Abstract: I propose a new approach to the unsolved Penrose problem by introducing the new concept of black holes and stars. Also, I propose studying the fundamental problem of billiards in spherical plane and solve it for the first natural case. Finally, I study the Poincare question about geodesics on the surface of convex higher order deltahedra. This leads me to a new protein folding model.

Awards	Value
Canadian Mathematical Society Award - Intermediate Sponsor: Canadian Mathematical Society	\$500
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
Gold Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$1 500
EnCana Platinum Award - Best Intermediate Project Sponsor: Encana Corporation	\$5 000
Total	\$9 000