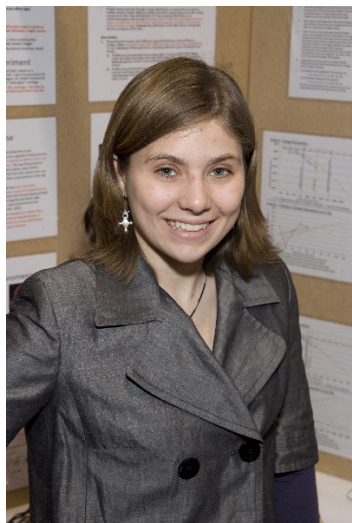


CWSF 2008 - Ottawa, Ontario



Kienan Marion

Gravity: Through the Looking Glass

Division: International / None
Category: Intermediate
Region: Calgary Youth
City: Calgary, AB
School: Queen Elizabeth Junior Senior High School
Abstract: Gravitational lensing was modeled using wine glass bases as optical lenses. Caustic image separations and lens residuals were measured as each lens passed by a source. Results compared to theoretical astronomical objects indicated that relying solely on caustic image separation to classify a given lens may result in errors in identification, as evidenced by the examination of lens residuals.

Biography

I am 16 years old and in grade 10 at Queen Elizabeth High School in Calgary, Alberta. At school I am involved in soccer and track, and I am also the goalkeeper for a club team outside of school. I also play trumpet in our school's concert and jazz bands. I love progressive rock and classical music, and I am working towards my grade 9 piano exam in June. I have participated in science fairs since grade 6, and have attended two Canada Wide Science Fairs. For the past three years at the Calgary Youth Science Fair I have been presented with the Royal Astronomical Society of Canada Award, and at CWSF 2006 I was awarded a bronze medal and the Award for Excellence in Astronomy. I would like to take a combination of Physics, Music and English in university, specializing in astronomy and astrophysics, and continue playing soccer.

Awards

Value

| | |
|---|---------|
| The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario | \$1 500 |
| Silver Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation | \$700 |
| Total | \$2 200 |