

A. Salaries and Wages

The normal course load at Siena College is 4 classes per semester. Siena has agreed to a 25% course reduction to increase the amount of time the I can allot to research. I have requested additional funds to reduce my teaching load by one course each Spring semester so that I can focus half of my time on research. The H α imaging campaigns will occur during the spring semester, and the course release valuable time for the PI observe, reduce and analyze the H α imaging data. In addition, I will prepare the summer research projects for participating undergraduates.

I request 2 months summer salary each year of the grant, and salaries are assumed to increase by 3% per year.

B. Other Personnel

The PI will employ 4 undergraduates during summer months for the 3 years covered by this proposal. The current rate is \$10.50 per hour, and the undergraduate salaries include 25 hours per week for 10 weeks during the summer. We have also included funds to cover the cost of housing for the summer students (\$135/week). This helps defray the expense of participating in summer research.

We have included funds for 2 students to continue work during the academic year (10 hrs per week).

C. Fringe Benefits

The fringe rate for full-time faculty is 42.2% for the academic and and 8.6% for summer salary.

The fringe rate for undergraduate students is 5.1% for summer research and for work completed during the academic year.

D. Equipment

I have requested funding \$5000 the first year to to purchase two computers, one for the PI and the second to be used by undergraduates.

E. Travel

The PI and two undergraduate student will attend the winter meeting of the American Astronomical Society during the second and third years to present results from this survey. The allowance per participant includes: \$500 for airfare; registration fee (\$500 for PI, \$200 for undergraduates); \$250 for hotel times 5 nights (double occupancy for undergraduates); \$60 per day allowance for food.

This proposal will fund travel for the PI, one co-I and two undergraduate students to Kitt Peak National Observatory for one observing trips a year, with an allowance per participant per trip of: \$500 for airfare; \$125 per night for room and board at the observatory. We include an additional \$200 for a rental car or alternate transportation to and from the airport.

This proposal will fund travel for the PI and co-I Desai to an international meeting during the third year with an allowance of: \$1200 for airfare; \$300 registration fee; \$250 for hotel times 7 nights; \$75 per day allowance for food.

F. Participant Support Costs

G. Other Direct Costs

Funds for publication are requested at the ApJ rate of approximately \$150 per page. We expect publications during the first and third years, approximately 15 pages each, for a total publication cost of \$2250 per paper.

Darren Broder (CV attached as Supplemental Document) will organize and run the fall workshop for high school physics teachers for a fixed fee of \$1000 per year, and I have requested funds to cover this.

G. Indirect Costs

The indirect cost rate at Siena College is 21.3%, excluding equipment, Participant Support, and Subawards.