

# SUPERNOVA/ACCELERATION PROBE EDUCATION AND OUTREACH

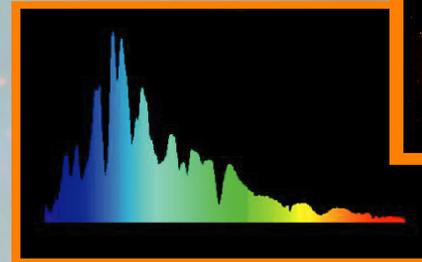
THE SNAP COLLABORATION



## Museums

In partnership with established museums, planetariums, and educational institutions, SNAP will leverage existing programs and develop new ones:

- \* *Challenger*-style "Journey to a Supernova"
- \* SNAP *Virtual Science Center* interactive website
- \* User friendly software for analyzing data



## Operations Center

Coordinating all EPO programs through a unique web environment, the SNAP Operations Center will make real scientific data directly available to the public:

- \* a "data pipeline" supernova images and spectra everyday
- \* special analysis software for non-scientists
- \* web-based, interactive primers on basic principles of cosmology
- \* real-time interactions with SNAP researchers and engineers



## Schools

*People learn science best when they do science.*

K-14 curriculum modules will be supported by research-based, grade-appropriate tools and activities:

- \* students have a *patch of sky to call their own*
- \* access to stored data
- \* user-friendly software for analyzing data and testing cosmological models
- \* web-based, around-the-clock observation as images reach the SNAP Mission Center
- \* a Virtual Science Center

## The Public

*The accelerating universe has fired public imagination!*

SNAP EPO will provide

- \* press briefings, panels, webcasts and science demonstrations to keep the public informed
- \* outreach modules for the press, museum visitors, and other members of the public, containing brochures, interviews, video clips organized around key topics, e.g. dark energy, supernovae
- \* web-based programs plus online resources such as continually updated press releases and outreach modules
- \* links to the best science web sites



## Professional Development

In collaboration with established science education institutions, SNAP will seek to build a core of motivated and knowledgeable teachers with expertise in SNAP's astronomy and physics science through:

- \* workshops, display design, curriculum development programs
- \* nationwide teacher/scientist partnerships modeled on the Astronomical Society of the Pacific's *Project ASTRO*
- \* opportunities for participation in SNAP research



## Universities and Community Colleges

*First-class students become first-class scientists and engineers by learning to use first-class instruments and techniques.*

*Target socio-economic groups under-represented in the fields of science and technology.*

- \* for non-science majors and pre-service teachers, ten weeks of summer research guided by scientist-mentors, with seminars, field trips, web-based tools
- \* for undergraduate science majors, research experiences with SNAP physicists, astronomers, engineers and computer scientists
- \* graduate students join SNAP working groups, e.g. mechanical design, supernova modelling, and will also help plan and teach summer programs

