



PARSEC is a research and education center of the University of North Carolina at Asheville

MISSION: To provide students and faculty with access to state-of-the-art instrumentation in a setting that serves as a conduit for education and research opportunities.

DIRECTOR: Chuck Bennett, Physics Department, UNC-Asheville

PARSEC promotes use of PARI facilities throughout the University of North Carolina System.



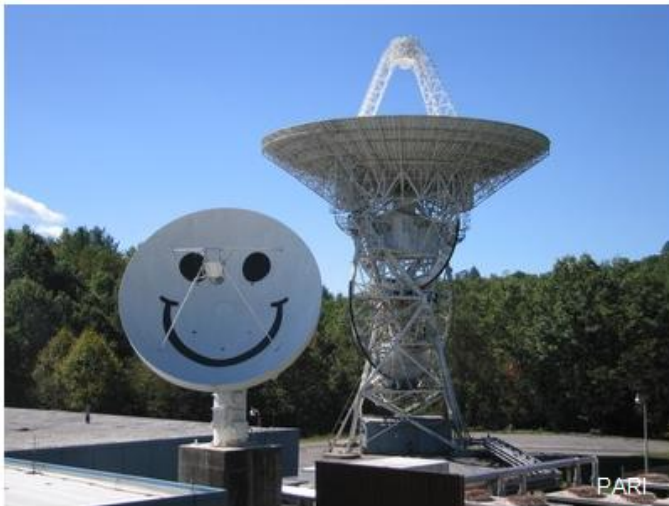
Tools for Education and Research

PARSEC research-grade 0.4-meter optical telescope.

Operated by PARI.

Available to researchers and educators anywhere.

Can be operated remotely or on-site.



4.6-meter PARI radiotelescope - "Smiley"

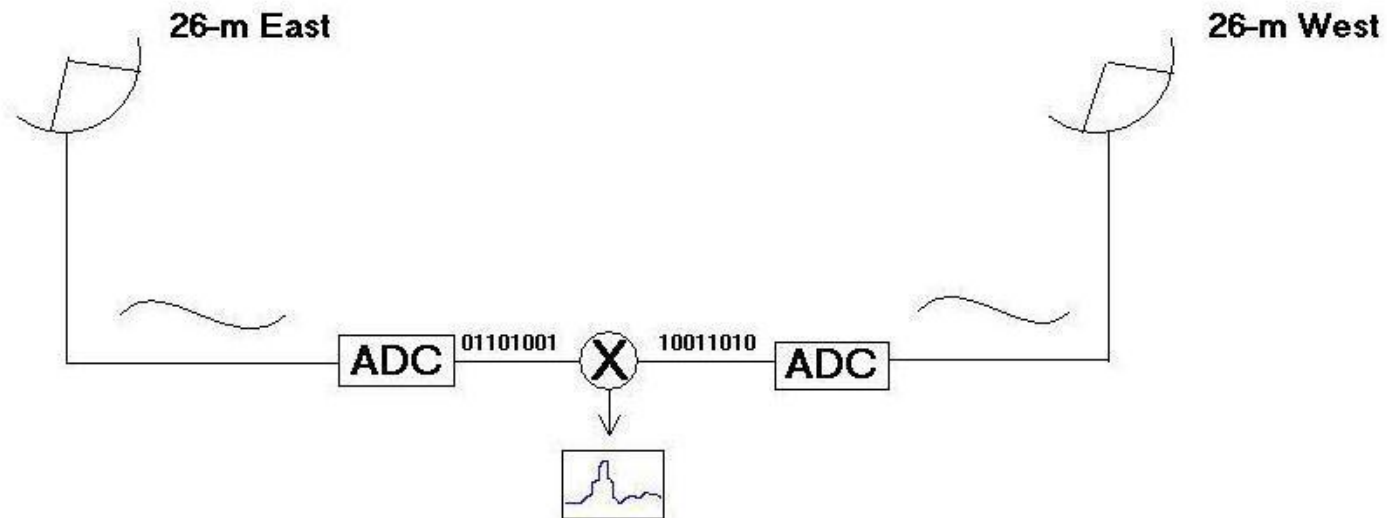
Maps galactic hydrogen 21-cm line.

Remotely operated over Internet.

Programmed by Prof. J. Daugherty, UNCA
Computer Science Dept.

PARI administers program and trains
science teachers.

Dedicated Interferometer for Rapid Variability (DIRV)



Correlator Processing Rate = 12 Gigabytes/second



PARSEC Summer Internship Program

Summers 2006, 2007, 2008 ...

Support from NASA, NSF, NC Space Grant

Hands-on approach

Participation in current research

Interactions with high school students



DIRV -- A PARSEC/PARI PARTNERSHIP

UNCA - Brian Dennison, Chuck Bennett, Joe Daugherty

PARI - Michael Castelaz, Ben Goldsmith, John Halsey, Lamar Owen, Don Cline

UNC-Pembroke - Jose D'Arruda

Furman University - David Moffett

UC-Berkeley - Dan Werthimer, Andrew Siemion

PARSEC Interns from UNCA, UNCP, Furman with majors in
Physics, Math, and Engineering

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