HAT Transit Survey
On-Line Stellar Variability Database

Searching for planets,
we find variable stars.
Help discover them.

HAT:

- network of 6 11-cm aperture fully automated telescopes
- 8x8 degree field of view
- 10,000 – 100,000 stars per field
- goal is to find transiting extra-solar planets
  - 9 discovered by HAT to date
  - many more in the works

Variable Star Database:

- Motivation:
  - Several million stars have been observed to date
  - 10,000 – 100,000 of these are variable stars
    - most are previously unidentified as such.
  - Types of variables include eclipsing binaries, pulsators, active stars, cataclysmic variables.
- Possible Research Project:
  - Release the HATNet light curves to the public
  - Develop a web-based interface to access the light curves
    - tools to calculate variability statistics
    - wiki for each star
    - internal server for planet candidates
  - Search the database for interesting types of variables
    - rare types of stars in eclipsing binaries

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