

# The NASA/IPAC/MSK Star & EXOPLANET DATABASE

<http://nsted.ipac.caltech.edu>

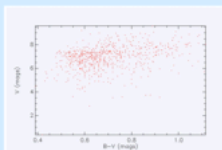
## What is NSIED?

The NASA/IPAC/MSK Star & Exoplanet Database (NSIED) is a data archive and search facility on nearby (mainly F,G and K) stars funded through NASA's Terrestrial Planet Finder Foundation Science (FS).

**The NSIED mission statement** explains our mandate and which stars are included in the database.

Information on a single object. There are several "overview" pages which group like parameters to summarize information on a single object.

Detailed view & Traceability. Shown here is the details view on V-band photometry for one object.



Two dimensional plotting is one of the tools available to NSIED users.

The NSIED home page.

## Why use NSIED?

NSIED is primarily a data search facility. NSIED has cross-identified over 30 different multi-wavelength parameters that serve both the astronomical and astrobological community.

NSIED provides traceability of all data to the original published sources and provides www links to access the original publication. Additionally, in the detailed view option, one can view the data as published by the authors.

NSIED has cross-identified the Washington Double Star catalog along with the rest of the catalogs to provide the most up-to-date information on multiple sources. This has necessitated a name resolver / cross-identification that is unique to NSIED.

NSIED includes (or will include) several types of cross-identified spectral and imaging data in addition to catalog/published journal data.

NSIED provides a set of tools to further interpret the basic data stored in the archive.

Data search by parameter filtering. This is the most powerful feature of NSIED. Users can filter any of the cross-identified parameters and derived quantities to find the objects meeting their science criteria.

The parameters are logically grouped in several categories on 7 different pages to allow efficient and user-friendly navigation for users.

Results from parameter based search. users select which columns to display for each matched object. Users can also download the data in several formats and/or pipe it to NSIED toolset.

**NStED Database**  
**<http://nsted.ipac.caltech.edu>**

**Over 140,000 Stars Cross-Searchable According to:**

- Position
- Kinematics
- Multiplicity
- Activity Indicators
- Spectral Type
- Photometry in 12 Wavelengths
- Resolved Disks
- Resolved Substellar Companions
- Metallicity
- Rotation
- Variability
- RV Planets
- Luminosity
- Effective Temperature

**Image Output Currently Includes:**

- 2MASS Finder Charts
- N2K Spectra

**Planned Features**

- List of Stars on RV Monitoring Surveys
- Ages from  $\log R'_{HK}$
- Spectroscopic Binaries
- Complete AO Images
- IRS Spectra
- Spitzer Legacy Data
- Model Atmosphere Fitting Tool