

DKIST critical science plan



CSP use cases are integral to process of planning DKIST early science. The CSP use cases help:

- (i) organise science priorities for first ~2 years of DKIST observations
 - (ii) translate scientific ideas from community into viable observing proposals, with assistance of instrument teams.
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- All observing proposals thus developed will still be subject to panel review
 - Some CSP UCs may be asked to join forces
 - Not necessary to start with a UC, but involvement in the process means proposals will benefit - and be stronger

Recent activities:

- So far, ~40 CSP UC ideas have been submitted, with ~25% of these UK-led
- New interface for developing use cases (requests to DKISTCSP@nso.edu)
- Bids to run NSO-supported UC development workshops went in last week (at least 1 UK-led)

All info at <http://dkist.nso.edu/CSP>

New DKIST CSP JIRA site (Account Requests to DKISTCSP@nso.edu)



Open issues

- UC-42: Searching for signatures of surface and body MHD ...
- UC-8: Spectro-polarimetry of Chromospheric Umbral Fine-...
- UC-13: The multi-scale nature of vorticity in the solar atmsp...
- UC-48: Relationship Between Evolutionary Process of Flare ...
- UC-23: Multi-wavelength spectroscopy of solar flares
- UC-21: Photospheric Flow Drivers
- UC-45: Investigating the dynamic chromosphere: probing th...**
- UC-40: Observations of Sausage Waves in the Lower Solar ...
- UC-39

[+ Create issue](#)

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Investigating the dynamic chromosphere: probing the paradigms of energy transfer by transverse MHD waves

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Details

Type: Science Use Case
Status: **OPEN** (View workflow)
Priority: Major
Resolution: Unresolved
Labels: None

People

Assignee: Mark Rast
Reporter: Richard Morton
Use Case Principal Investigator: Richard Morton
Additional Users to E-mail: Eamon.Scullion, Gary Verth, James McLaughlin, Robertus Erdelyi, Sergiy Shelyag, Shaun Bloomfield, Stephane Rannier

GENERAL INFORMATION
SCIENCE JUSTIFICATION
OBSERVATION SPECIFICS

NB all CSPs are open to view by everyone with an account!

All info at <http://dkist.nso.edu/CSP>

