

Caltech Submillimeter Observatory

PROPOSAL SUMMARY SHEET FOR TELESCOPE USE

TITLE:

Proposal Date: 2013 April

Type:

extragalactic: continuum CO lines other planetary: continuum lines
galactic: continuum lines circumstel. env. YSOs cloud structure chemistry other

ABSTRACT:

Is this a resubmission of a previous proposal? no yes ; proposal number: ...
Is this a continuation of (a) previous proposal(s)? no yes ; proposal number(s): ...
Have you attached a list of publications resulting from recent, prior CSO observations? yes no

Nights requested for this period: first half second half full nights

Special requirements:

Receivers: 230 GHz 345 GHz 490 GHz 650 GHz 850 GHz Barney (345 GHz)

SHARC II: 450 μm 350 μm SHARP **Bolocam:** 1.1 mm **Other:**

Lines and frequencies (including redshifts):

List of Objects (give most common names)
with equatorial coordinates

Principal Investigator:

name, institution, address, fax, e-mail:

Other Investigators (name, institution):

Expected observers (at least 2):

(continue on separate sheet, if needed)

Attach to this form: **scientific justification** (≤ 2 typed pages). See the latest CSO Call for Proposals for a complete list of additional required attachments.

form: 2013 March

Scientific Justification

Maximum 2 pages including time estimate. (Do not repeat the abstract.)

Time Estimate

Mandatory.

Required Attachments

(Not counting against the 2 page limit.)

- List of publications by any proposal investigators using CSO data since 2010.
- List of all students and postdocs who have used the CSO since 2010.
- List of students who have obtained a PhD using the CSO.