

Useful ALMA Stuff

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ALMA Portal

<http://www.almascience.org>

The ALMA Portal for Europe is at almascience.eso.org. From this page, it is possible to access the following information:

- News
- Call for proposals
- Documentation
- Web-based tools
- CASA home page
- Data archive
- Helpdesk

People need to register with the portal to do the following:

- Submit proposals (or be a Co-I on proposals)
- Submit Helpdesk tickets
- Download proprietary data



Atacama Large Millimeter/Submillimeter Array

In search of our Cosmic Origins

Select instance of Science Portal

Welcome to the ALMA Science Portal

Please select your preferred ALMA Regional Center (ARC) to access the Science Portal.

The ARCs provide the interface between ALMA and the astronomy community. They are located at NAOJ, in Mitaka, Japan for the East Asian partnership, at ESO in Garching, Germany for the European partnership and at NRAO in Charlottesville USA for the North American partnership.

Portals:



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Portals: [ESO](#) [NRAO](#) [NAOJ](#)

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- Home
- About ALMA
- ALMA Science
- Call for Proposals
- ALMA Data
- Documents & Tools

User Services at ARCs

- [Helpdesk](#)
- [ALMA@ESO](#)
- [ALMA@NRAO](#)
- [ALMA@NAOJ](#)

Welcome to the ALMA Science Portal at!

Switch between Science Portals



Access ALMA user documents, tools, tables of capabilities

Overview

The Atacama Large Millimeter/submillimeter completed in 2013, ALMA will consist of a compact array of 7-m and 12-m antennas to grt with state-of-the-art receivers that cover atmos ALMA started in 2003 and will be completed it receiver bands. The ALMA project is an international collaboration between Europe, East Asia and North America in cooperation with the Republic of Chile. More details can be found via the **About ALMA** link in the left menu.

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is the website for The ALMA Science Portal, served from one of the ALMA Regional Centers (ARCs) of the ALMA partner organizations: ESO, NRAO or NAOJ. You may switch between the different instances of the portal through the links to the appropriate ALMA partner at the top banner. Through this portal you can find details about the technical capabilities of ALMA, how to propose for observing time, and how to access ALMA data. It includes links to all official ALMA documents, including and submitting proposals and processing ALMA data. In addition, you can find information about the project and login to the portal via the links at the top banner.

Access helpdesk or ARC webpages

Users queries, are provided by each of the three ARCs. Each ARC provides information on region-specific user services, such as visitor and student programs, schools, workshops, financial programs and public outreach activities. These are accessed via the links under the User Services area in the left menu.

General News

First general news item
Feb 23, 2011

More...

Proposal Documentation

<http://almascience.eso.org/call-for-proposals>

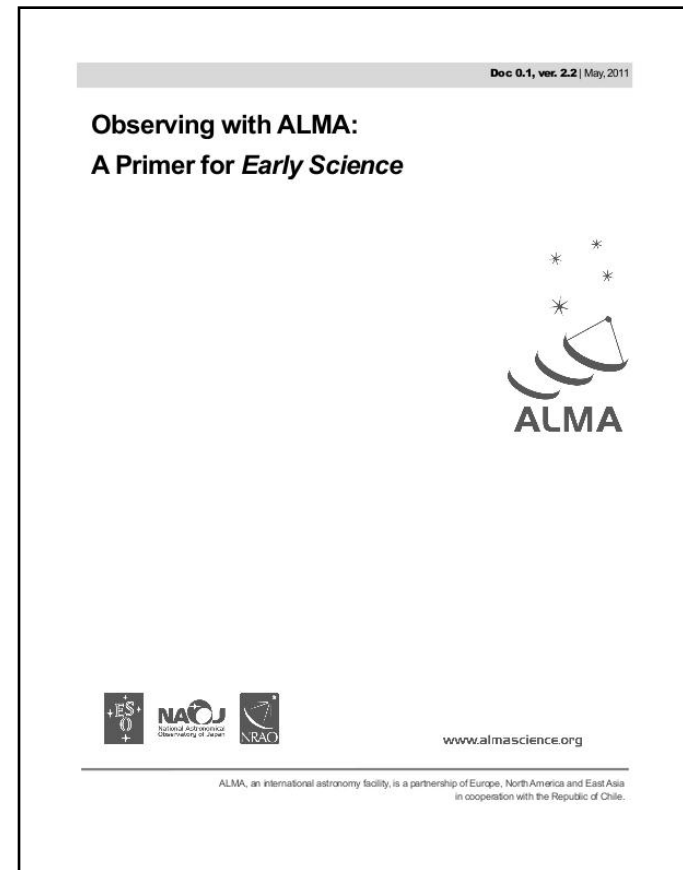
The call for proposals includes links to three documents that describe very useful information on the performance of ALMA. These documents include:

- *Early Science Primer*
- *ALMA Cycle 0 Proposer's Guide*
- *ALMA Cycle 0 Technical Handbook*

Early Science Primer

This is a broad introduction to ALMA that is meant for novice ALMA users. This includes:

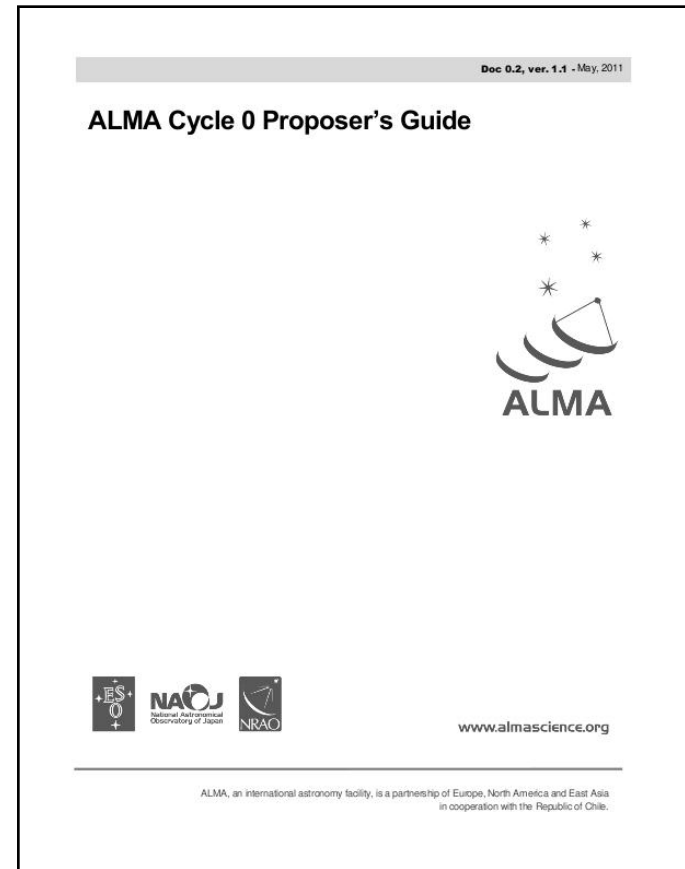
- General background information on ALMA and radio astronomy
- Technical details on ALMA performance
- Organisational information
- Examples of ALMA Early Science Proposals (probably no longer as important as real-life proposals)
- Overview of observations and data reduction



Cycle 0 Proposer's Guide

This is a general introduction to ALMA for people writing proposals. It includes:

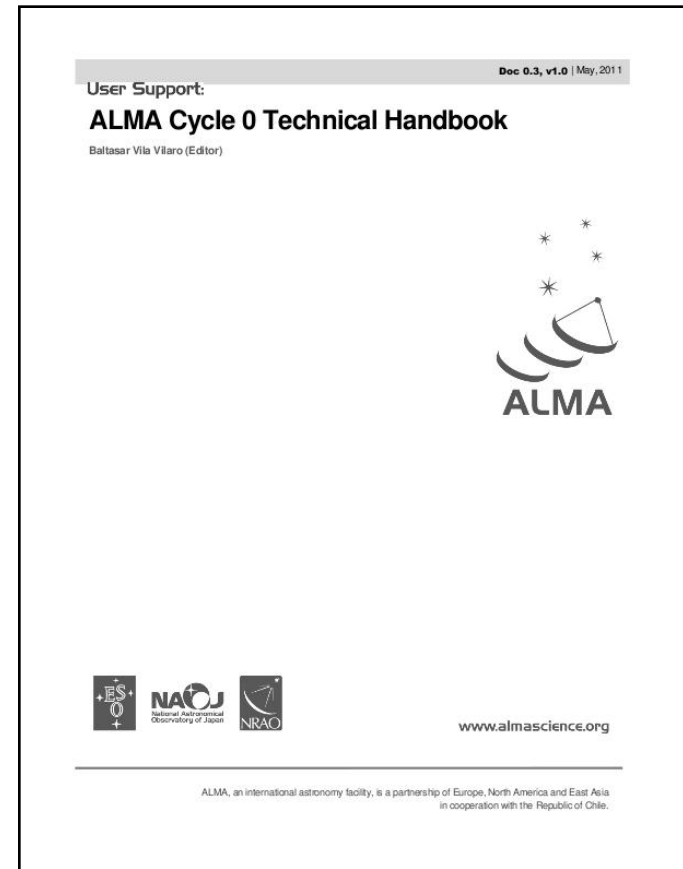
- Outline of the ALMA organisation structure
- Recursive list of the available documentation and tools
- Guidelines on proposal preparation
- Description of the time allocation process, observation preparation, and data delivery
- Summary of telescope capabilities



ALMA Cycle 0 Technical Handbook

This is technical information that is really of importance to expert users. It includes:

- Technical information on receivers, correlators
- Information on setups for telescope
- Description of scheduling blocks (SB)
- Details on calibration strategies



CASA Information

<http://casa.nrao.edu>

CASA is the software that is used to process ALMA data. The CASA website has the following:

- CASA software releases
- Tutorials with ALMA data (select “CASAGuides Wiki under “Using CASA”)
- User reference manuals



ALMA Helpdesk


<https://help.almascience.org>

The ALMA Helpdesk can be used to either search for user questions or ask questions.

General queries will be answered by one of the ESO ARC staff. Simple or common questions will probably be answered rapidly by ESO. Queries about visiting or interacting with the UK ARC node will be answered by us.

Responses to helpdesk tickets should be received within 2 working days.

Support Center

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Submit new tickets, view existing tickets or create new replies.



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Submit a new ticket.



Knowledgebase

Search support articles and find answers to frequently asked questions.













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Logged In: **Joe Black**

Search

-- Entire Support Site --

Popular Knowledgebase Articles	Views
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Language: [English](#)

Support Center » Submit a Ticket

Submit a Ticket

If you can't find a solution to your problem in our [knowledgebase](#), you can submit a ticket by selecting the appropriate category below.

Select Category

- General Queries (NA) - Science Portal/Registration, Documentation, Webpages, Proposal reviews and assessment, Project tracking, other
- Project Planning (NA) - Available Capabilities, Call for Proposals, Sensitivity Calculator, Simulators, Splatalogue, other
- Observing Tool (NA) - Proposal Preparation, Proposal Submission (general), Phase2 process
- Data Reduction (NA) - CASA, pipeline processing, etc...
- Archive and Data Retrieval (NA) - archive access and queries, obtaining your ALMA data
- Face to Face Support (NA) - Data reduction, sabbatical, science, short term, other

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Reset

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ALMA OT

<http://almascience.eso.org/call-for-proposals/observing-tool>

The ALMA OT is used primarily for proposal preparation. It also includes a few useful tools, including:

- Field setup tools
- Spectral setup tools (including spectral line library)
- Sensitivity calculator (also available online at <http://almascience.eso.org/call-for-proposals/sensitivity-calculator>)

Project - Observing Tool for ALMA, version Cycle0

File Edit View Tool Search Help Perspective 1

Project Structure

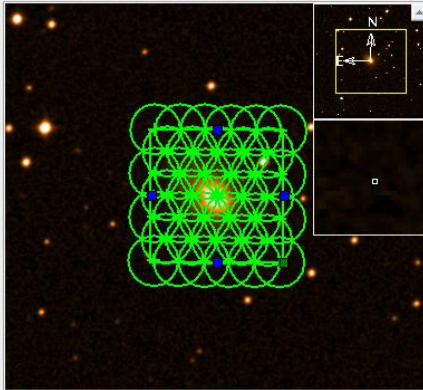
Proposal Program

Unsubmitted Proposal

- Project
 - Proposal
 - Planned Observing
 - Science Goal
 - General
 - Field Setup
 - Spectral Setup
 - Calibration Setup
 - Control and Performance

Editors

Spectral Spatial Field Setup



1x | 130, 151 | 4072.0
 04:54:32.263, -53:24:09.63 (J2000)
 image filename: jsky3/cache/jsky4995008506380456721.fits

FOV Parameters

Frequency used: 112.890 GHz Refresh
 (taken from) Science Goal: representativeFrequency

Antenna Diameter: 12m 7m
 Main beam size: 45.7 arcsec
 Show FOV(circle)

Image Query

Image Server: Digitized Sky (Version II) at ESO
 Image Size(arcmin): 10.0 Query

NGC 1705

Source

Source Name: NGC 1705 Resolve

Choose a Solar System Object? Name of object: Unspecified

System: J2000 Sexagesimal display? Parallax: 0.00000 mas

Source Coordinates: RA: 04:54:13.500 PM RA: 0.00000 mas/yr
 Dec: -53:21:39.820 PM Dec: 0.00000 mas/yr

Source Velocity: 629.000 km/s hel z: 0.002100 Doppler Type: RELATIVISTIC

Target Type: Multiple single point fields 1 rectangular field

Expected Source Properties (for Technical Assessment)

Peak Flux Density per Beam: 0.00000 Jy
 Polarisation Percentage: 0.0 %
 Line Width: 0.00000 km/s

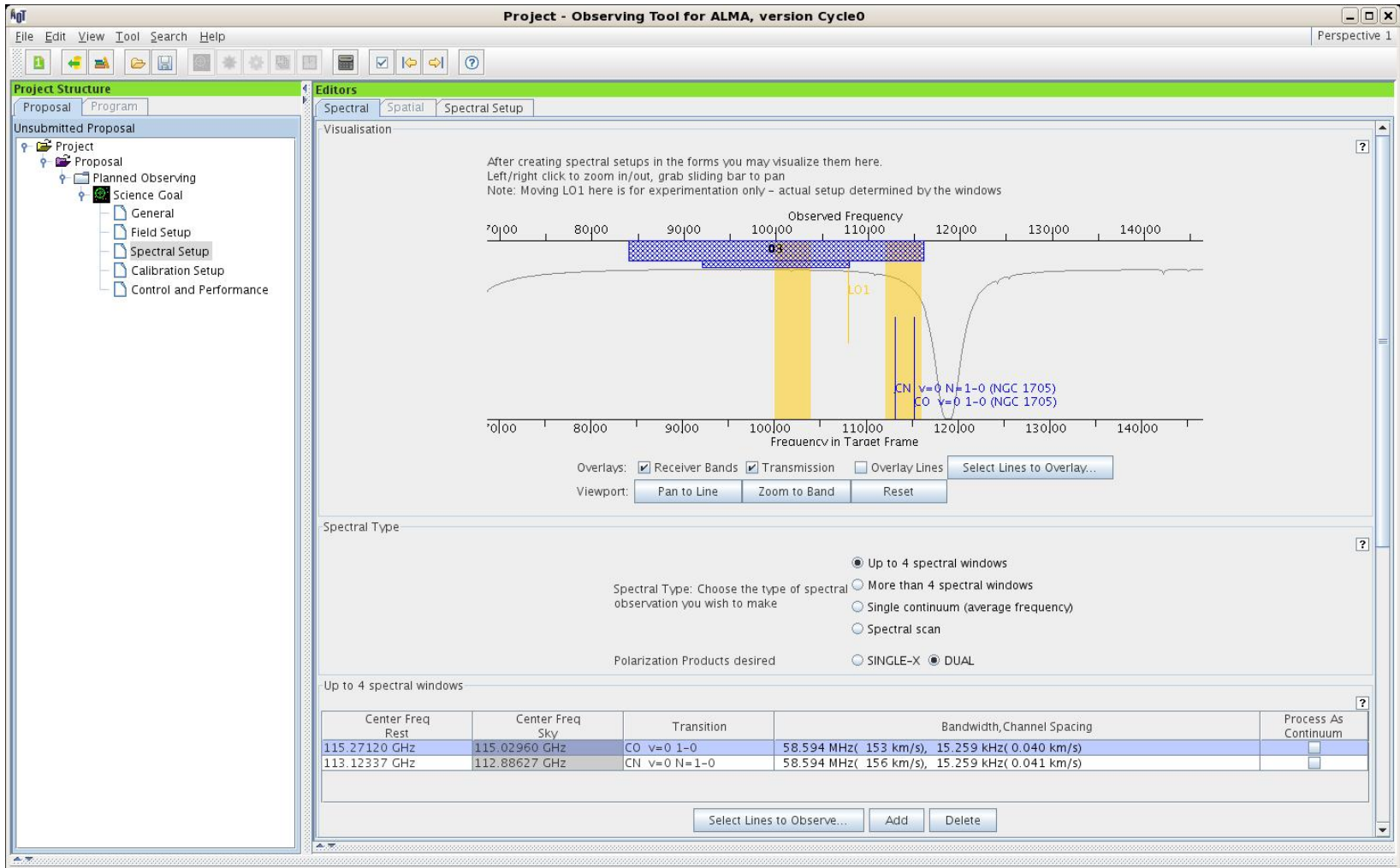
Rectangle

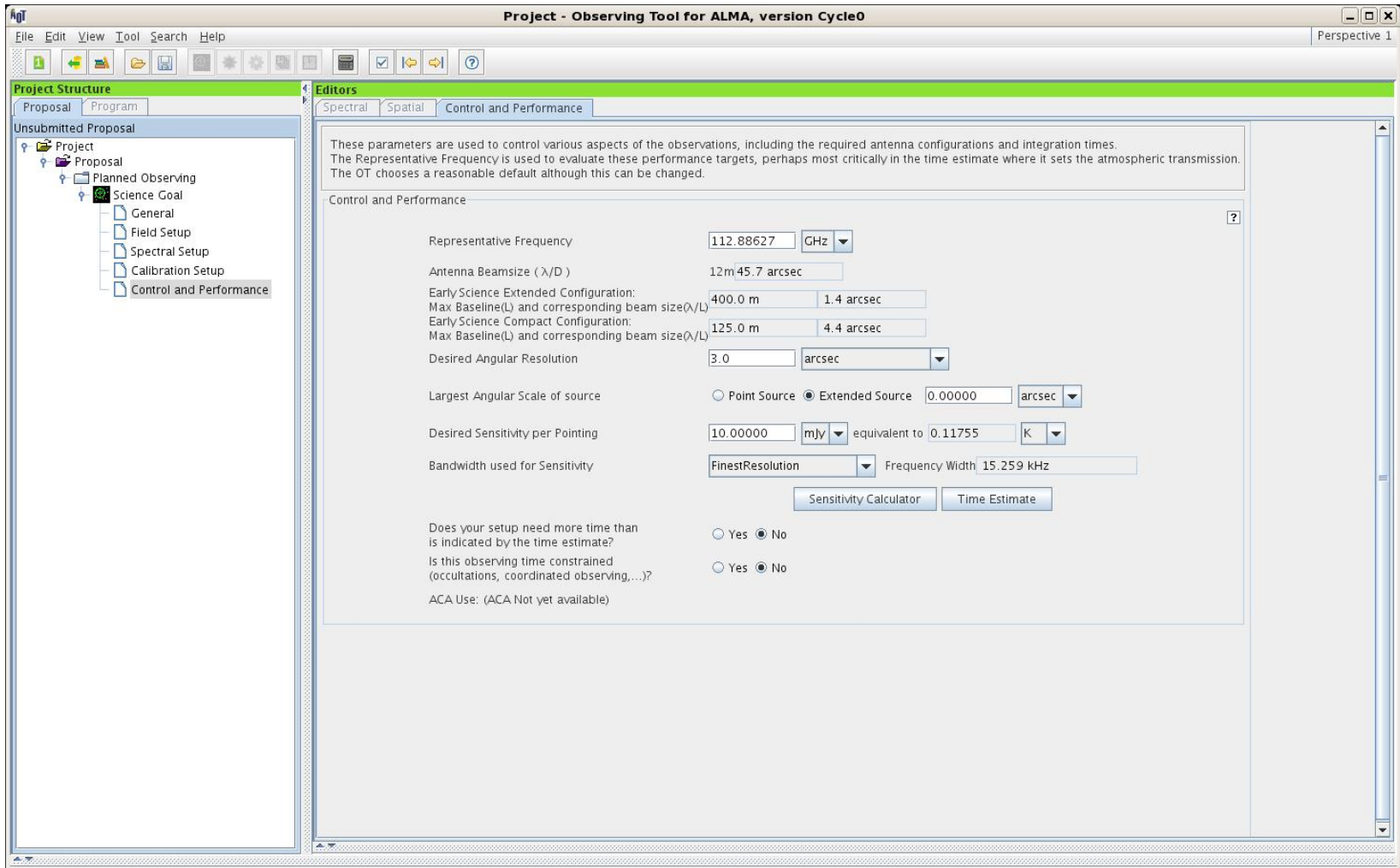
Coords Type: ABSOLUTE RELATIVE

Field Center Coordinates: Offset(Longitude): 0.00000 arcsec
 Offset(Latitude): 0.00000 arcsec

p length: 120.0 arcsec
 q length: 120.00000 arcsec
 Position Angle: -0.00000 deg
 Spacing: 0.50000 fraction of main beam

Add Source Load from File... Delete Source Delete All Sources





Sensitivity Calculator

Common Parameters

Dec	-53:21:39.820	
Polarization	Dual ▼	
Observing Frequency	112.88627	GHz ▼
Bandwidth per Polarization	15.25879	kHz ▼
Water Vapour Column Density	Calculator Chooses ▼	
tau/Tsky	tau=0.094, Tsky=25.144 K	
Tsys	94.422 K	

Individual Parameters

	12m Array	7m Array	Total Power Array
Number of Antennas	16	0	0
Resolution	3.00000	18.259272	45.648179
	arcsec ▼	arcsec	arcsec
Sensitivity(rms)	10.00000	10.00000	10.00000
	mJy ▼	mJy ▼	mJy ▼
(equivalent to)	0.11755	0.00317	0.00033
	K ▼	K ▼	K ▼
Integration Time	0.00000	0.00000	0.00000
	s ▼	s ▼	s ▼

Integration Time Unit Option Automatic ▼

Calculate Integration Time

Calculate Sensitivity

Close

Time Allocation Results

Basic information on the time allocation (including the list of people performing the proposal review) can be found at <http://almascience.eso.org/news/outcome-of-the-proposal-review-process>

The full list of people who were awarded observing time is at <http://www.eso.org/public/news/eso1137> (see the link to the PDF file at the bottom of the page)