



ARO Proposal Cover Sheet

Title

Abstract

Name	Institution	Email	Phone	Observer?

Please list permanent IP addresses for remote observing:

Total 12m time request at each LST: List total number of shifts (integers only) at each LST for all receivers added together:

0	1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23

Total SMT time request at each LST: List total number of shifts (integers only) at each LST separately for 1mm/0.8mm:

0	1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23

12m: 4mm 3mm 2mm 1mm **SMT:** 1mm 0.8mm

Please fill out both pages of the cover sheet and combine with up to 3 additional pages (including the proposal scientific justification, technical justification, figures, and references) into a single PDF file using the naming convention: LastName_FirstInitial_Semester_1.pdf (where Semester = 2021b, 2022a etc. with a = Spring proposal call and b = Fall proposal call; the _1, _2 etc. increases for multiple proposals from same PI). Email the PDF file to astro-aroproposals@list.arizona.edu

LST Interval	Repeats	Telescope	Receiver	Avoidance/Scheduling Dates

List the LST interval blocks you want scheduled (i.e. “22–7” means to schedule a block starting at 22h LST and ending at 7h LST; please list only one LST block per row) and the number of times each block should be repeated (i.e. if 22h – 7h should be repeated 3 times, then enter “3” in the Repeats column). In the “Telescope” column please indicate 12m or SMT and in the “Receiver” column please indicate which receiver is being used (12m: 4mm, 3mm, 2mm, 1mm and SMT: 1mm, 0.8mm). **If you are proposing to use both the 12m and SMT or are proposing to use multiple receivers, please list separate LST intervals for each telescope and receiver on different rows.** It is the observer’s responsibility to check that their sources are outside sun avoidance (10 deg @ 12m, 44 deg @ SMT). List dates in “Avoidance/Scheduling Dates” column for which that LST block should be *avoided* in scheduling (i.e. “Avoid Nov 25 – Jan 12”). For observations that require specific dates for scheduling (i.e. comet observations), please indicate by saying “Schedule on: (date range)” in the Avoidance/Scheduling Dates column.

Tuning Table

Line Name	Frequency [GHz]	Sideband	Backend Res. [kHz]	Line Name	Frequency [GHz]	Sideband	Backend Res. [kHz]

You may use multiple rows for a single setup (for instance, use 4 rows if observing 8 lines simultaneously with AROWS mutli-window mode on the 12m and leave a blank row between different setups). The “Line Name” should be a shorthand version of the spectral line with < 7 characters (including numbers and dashes). “Sideband” = LSB or USB. Please see the Arizona Radio Observatory website (<https://aro.as.arizona.edu>) for possible spectrometer resolutions at each telescope.