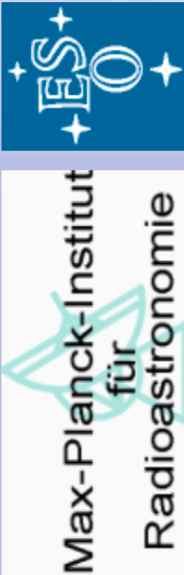




Atacama Pathfinder EXperiment

APEX

Heterodyne Instruments



OTF time estimator V8.0.3

Heterodyne receiver:

Side Band:

Frequency:

Line Freq:

Resolution $\Delta\nu$:

pwv :

Source elevation:

Length axis in scanning direction:

Length in the orthogonal axis:

Dumptime ($0.1 \leq dt \leq 4$ [s]):

rms or sigma requested:

Other Tools

[OTF Simulator](#)

[Atmospheric transmission](#)

[ON/OFF OTC Calculator](#)

[Note about Overheads](#)

Helps you to design a map

Check your tuning

Estimate on/off integration time

Overheads Estimations

Process Data

Time per sub map [sec] 110.4

Number of calibrations per coverage 4

Total map area covered [arcsec²] 90000

Number of submaps 3

Tau (source elev 45 deg) 0.162

Trec [K] 60

Tsys [K] (source elev 45 deg) 140.419

HPBW () [arcsec] 35.9

Beam solid angle [arcsec²] 1617.6

Num of row per Off position (reference pos.) 11

Scanning speed [arcsec/ s] 29.9

Number of coverages 6

sigma reached after 1 coverage [K] 0.122

sigma reached after 6 coverage(s) [K] 0.05

On source time [min,hr] 33.1 | 0.6

Off source time [min,hr] 3.5 | 0.1

Calibration time [min,hr] 2 | 0

Telescope time [min,hr] 104.17 | 1.74