**Continuum =>  L-band => Total Power**

(v1 : 22/06/2017)

$ : commands to insert in a shell

> : commands to insert in the operatorInput panel

**Before observing**

1. On nuraghe-mng :

* Check that all of the 32 containers are active on ACS,
* the active surface is green on AS,
* the jlog is opened in order to track possible error messages,
* the interface of the Meteo client is opened to check the wind velocity in real time (< 60 km/h).

1. On nuraghe-obs1 :

* Check the presence of the 8 panels :
* **operatorInput**
* **AntennaBoss**
* **GenericBackend**
* **Mount**
* **Observatory**
* **Receivers**
* **Scheduler**
* **MinorServo**
* Upload your shedule and check it :

$ cd /archive/schedules/[projectID]

$ scheduleChecker schedulename.scd

**Start the observations**

In the operatorInput panel :

1. Insert your project number

> project=[projectID]

1. Initial setup

> antennaReset

> setupLLP

1. Select the receiver Mode :

> receiversMode=[mode]

* + - receiversMode=XXC1
    - receiversMode=XXC2
    - receiversMode=XXC3
    - receiversMode=XXC4
    - receiversMode=XXC5
    - receiversMode=XXL1
    - receiversMode=XXL2
    - receiversMode=XXL3
    - receiversMode=XXL4
    - receiversMode=XXL5

C is for Circular, L for Linear polarization

1 : all band, 1300-1800 MHz (no filter)

2 : 1320-1780 MHz

3 : 1350-1450 MHz

4 : 1300-1800 MHz (band-pass)

5 : 1625-1715 MHz

1. Select the active surface shape (Parabolic for L-band observations)

> asSetup=P

1. Insert the Local Oscillator value (in MHz)

> setLO=[freq]

1. Select the Total Power Backend

> chooseBackend=BACKENDS/TotalPower

1. Insert the bandwidth for the focus selector (always 2000 MHz in L-band) and choose the sample rate (in MHz) :

> setSection=0,\*,2000.000000,\*,\*,[sampleRate],\*

> setSection=1,\*,2000.000000,\*,\*,[sampleRate],\*

1. Put the antenna at 45° of elevation and attenuate the signal in order to obtain values between 750 and 1100 counts (linear range of the backend) :

> goTo=\*,45d

> getTpi

> setAttenuation=0,[att] with [att] between 0 and 15 dB

> setAttenuation=1,[att]

> getTpi

1. Check the tsys (typical values)

> tsys

1. Begin the schedule by indicating the start scan [N] or subscan [N\_n] in the SCD file :

> startSchedule=[projectID]/[schedulename].scd,[N]

**During the observations**

1. On nuraghe-obs2, check that the data are written in your project section :

$ cd /archive/data/[projectID]/

1. Quick-look of the data :

$ idl

IDL> .r fitslook

IDL> fitslook

**At the end of the observations**

1. Stop the schedule

> stopSchedule or > haltSchedule

1. Park the minor servo, active surface and antenna

> goTo=180d,89d

> servoPark

> asPark

> antennaPark

**Download the data**

$ scp -r [projectID]@nuraghe-obs2:/archive/data/[projectID]/\* .