

Help Listing

```
[user9@DE601C StationConfigs]$ beamctl --help
log4cplus:ERROR Unable to open file: /opt/lofar/var/log/beamctl.log
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Usage: beamctl <rcuspec> <dataspec> <digpointing> [<digpointing> ...] FOR
LBA ANTENNAS
    beamctl <rcuspec> <anapointing> [<anapointing> ...] [<dataspec>
<digpointing> [<digpointing> ...]] FOR HBA ANTENNAS
    beamctl --calinfo
```

where:

```
<rcuspec>      = --antennaset [--rcus] --rcumode
<dataspec>    = --subbands --beamlets
<digpointing> = --digdir
<anapointing> = --anadir
```

with option arguments:

```
--antennaset=name # name of the antenna (sub)field the RCU's are part of
--rcus=<set>      # optional subselection of RCU's
--rcumode=0..7   # RCU mode to use (may not conflict with antennaset
--subbands=<set> # set of subbands to use for this beam
--beamlets=<list> # list of beamlets on which to allocate the subbands
                  # beamlet range = 0..247 when Serdes splitter is OFF
                  # beamlet range = 0..247 + 1000..1247 when Serdes
```

splitter is ON

```
--digdir=longitude,latitude,type[,duration]
                  # lon,lat are floating point values specified in
radians
                  # type is SKYSCAN or almost any other coordinate
system
                  # SKYSCAN will scan the sky with a L x M grid in the
(l,m) plane
--anadir=longitude,latitude,type[,duration]
                  # direction of the analogue HBA beam
--help          # print this usage
```

The order of the arguments is trivial.

This utility connects to the CalServer to activate the antennas in set --antennaSet containing the selected RCU's. The CalServer sets those RCU's in the mode specified by --rcumode. Another connection is made to the BeamServer to create a beam on the selected antennafield pointing in the direction specified with

--digdir.