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Goodman Long slits

The Goodman High Throughput Spectrograph (GHTS) has an assortment of long slits from which the user can choose, in addition to the possibility of creating custom Multi-Object Slit (MOS) masks.

The GHTS has a carousel with 36 positions, of which 27 are available for longslits and/or Multi-Objects Masks (MOS). Each long slit is approximately 3.9 arcmin long.

As of Aug 23, 2017, long slits which are always installed and available are the following (all widths in arcsec; the unbinned pixel scale of the GHTS is 0.15 arcsec/pixel):

0.45", 0.6", 0.8", 0.95", 1.0", 1.2", 1.5", 1.9", 3.2", 4" and 10.2".

The following table provides the old names of some of the slits.

Long slits installed on the GHTS Carousel as of Aug 23, 2017

New Slit Name in <u>GHTS</u> Slit Mask Menu	Actual Measured Width (arcsec)	Old Slit Code/Name	NEW Carousel slot
0.45" long slit	0.45	0.46" long slit	1
0.6" long slit	0.59	---	5
0.8" long slit	0.80	0.84" long slit	6
0.95" long slit	0.95	1.03" long slit	16
1.0" long slit	1.01	---	7
1.2" long slit	1.19	1.07" long slit new	10
1.5" long slit	1.54	1.68" long slit	11
1.9" long slit	1.91	---	12
3.2" long slit	3.21	3.00" long slit	13
4.0" long slit	4.00	5.00" long slit	14
10.2" long slit	10.18	10.0" long slit	15

We have **16 remaining positions are available for MOS masks**. Installing MOS masks is a daytime task, like changing filters, and should be requested beforehand in the [Instrument Setup Form](#) [1], or by email to the Support Astronomer with copy (cc) to soarops@ctio.noao.edu [2], so our Observer Support staff also receives the request.

Note: [the Goodman Acquisition Camera \(GACAM\)](#) [3] has a FOV=1.8arcmin in its longest dimension, therefore, it does not span the full length of a Goodman long slit. If your science requires a full view of the long slit you will need to use the pre-imaging procedure for object acquisition ([see the Step-by-step guide to Observing with Goodman](#) [4]).

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Links

[1] <http://www.ctio.noao.edu/SOAR/Forms/INST/setup.php>

[2] <mailto:soarops@ctio.noao.edu>

[3] <http://www.ctio.noirlab.edu/soar/content/goodman-acquisition-camera-gacam>

[4] http://www.ctio.noirlab.edu/soar/sites/default/files/GOODMAN/Goodman_Tutorial_2017.pdf