



Published on SOAR (<http://www.ctio.noao.edu/soar>)

[Home](#) > [SOAR Adaptive Optics Module \(SAM\)](#) > SAM-FP

## SAM-FP

This page contains useful information regarding this new mode that is running now at SOAR. At the moment, SAM-FP is considered to be a Restricted User Instrument. In order to use it, the astronomer needs to get in touch with the instrument's P.I., Dra. Cláudia Mendes de Oliveira. We have now an open call for Early Science Observations that will happen in mid-February 2018. It will be a total of four nights shared between all the astronomers that request their object to be observed. The observations will be in service mode. That means that SAM-FP team will do the observations and reduce the data. The data-cubes provided will be already corrected with bias and flat. The phase-correction will also be applied by the team. Wavelength calibration and astrometric calibration will be done together with the astronomer.

### Proposals

SOAR scheduled four nights for Early Science observations with SAM-FP from Feb 16<sup>th</sup> to Feb 19<sup>nd</sup>, 2018. The 2016 call for proposals is linked [here](#) [1]. It describes the technical capabilities. **Interested parties MUST contact Claudia Oliveira no later than December 15, 2017.** The publication regarding this mode can be found in [Oliveira et al 2017](#) [2].

Since we do not know how many targets or science projects will be submitted, we ask all the astronomers interested to send an e-mail to our team with the following information:

- Science justification - one or two paragraphs is sufficient.
- List of targets in the [SOAR's standard format](#) [3] or in following format (no other format will be accepted):

#	OBJECT	RAJ2000	DECJ2000
AB01_	XXXXX	HH:MM:SS	+DD:MM:SS
AB02_	XXXXX	HH:MM:SS	+DD:MM:SS
...	...	...	...
AB0N_	XXXXX	HH:MM:SS	+DD:MM:SS

# A : Last name first letter

# B : First name first letter

# N : Objectc priority number

- The list of targets has to be sorted by priority.
- Number of objects required to get proper results.

## Data Policy

This instrument has been developed with the team's resources and the Fabry-Perot mode is a restricted-use instrument on SOAR. As a recognition of the effort made by the team to make this instrument available to the community and to make the data ready for the user to do science with it, it is requested that the three team members be co-authors of any published work that may result from the observations (note that the time that the team member Bruno Quint (post-doc researcher and SOAR resident astronomer) spends on this instrument comes out from his "research" time and is not part of his Brazil or SOAR support duties).

## Contact

The contact e-mail are:

- Claudia Mendes de Oliveira - claudia.oliveira at iag.usp.br
- Bruno C. Quint - bquint at ctio.noao.edu
- Philippe Amram - philippe.amram at lam.fr

## More in numbers

- Fabry-Perot [\[link\]](#) [4]
- Filters for SAM-FP [\[link\]](#) [5]

## Fabry-Perot in numbers

This page contains information about the two Fabry-Perot currently available to use in SAM-FP mode.

### Low-Resolution Fabry-Perot (LRFP)

Table 1 - LRFP in numbers

N  
o  
r  
m  
a  
l  
i  
z  
e  
d  
N  
o  
m  
i  
n  
a  
l  
r  
e  
f  
e  
r  
e  
n  
c  
e  
s  
f  
o  
r  
H  
a

N  
o  
m  
i  
n  
a  
l  
F  
r  
e  
e  
S  
e  
c  
t  
o  
r  
R  
a  
n  
g  
e  
F  
r  
e  
e  
S  
e  
c  
t  
o  
r  
R  
a  
n  
g  
e

0  
.1s  
4a  
1m  
5p  
Äj  
.i  
bn  
cg  
v  
i

F  
4i  
1n  
.e  
7s  
2s  
e

N  
u  
m  
b  
e  
r  
o  
8f  
4c  
h  
a  
n  
n  
e  
l  
s

## High-Resolution Fabry-Perot (HRFP)

Table 2 - HRFP in numbers

N  
o  
r  
m  
2a  
0l  
0g  
 $\mu$ a  
mp  
s  
i  
z  
e

N  
o  
m  
i  
n  
a  
l  
O  
r  
d  
e  
r  
f  
o  
r  
H  
a  
N  
o  
m  
i  
n  
a  
l  
4  
F  
9  
r  
1  
e  
1  
e  
0  
-  
6  
S  
K  
p  
7  
e  
A  
c  
s  
t  
r  
i  
a  
l  
-  
R  
a  
n  
g  
e

F  
r  
e  
e  
-  
3S  
5p  
0e  
.c  
2t  
4r  
ba  
cl  
v-  
R  
a  
n  
g  
e  
0  
.0  
3a  
0m  
8p  
A  
i  
b  
c  
v  
-  
i  
F  
1i  
6n  
.e  
4s  
5s  
e



N  
u  
m  
b  
e  
r  
o  
f  
c  
h  
a  
n  
n  
e  
l  
s  
F  
u  
l  
l  
N  
o  
t  
e  
: 2  
S  
e  
l  
e  
c  
t  
i  
o  
n  
s  
a  
r  
a  
v  
a  
i  
l  
a  
b  
l  
e  
f  
o  
r  
u  
s  
e  
i  
n  
t  
h  
e  
I  
n  
s  
t  
r  
u  
m  
e  
n  
t  
S  
e  
t  
u  
p  
F  
o  
r  
m  
.

## Filters for SAM-FP

Here is the list of filters available to use with one of the two Fabry-Perots. The filters have to be specified in the Instrument Setup Form ideally one week before the observing run since they may be in use in another instrument or even telescope.

B  
T  
E  
R  
N  
S  
O  
N  
S  
A  
C  
7  
1  
7

B  
T  
6  
6  
6  
6  
6  
6  
A  
2  
0

B  
T  
6  
6  
6  
6  
6  
6  
A  
2  
0

B  
T  
6  
6  
6  
6  
6  
6  
A  
2  
0

B  
T  
F  
B  
~~B~~  
~~7~~  
B  
A  
/  
3  
8  
S  
A  
M  
B  
~~B~~  
~~B~~  
A  
o  
a  
d  
S  
A  
M  
I  
T  
B  
B  
A  
B  
r  
o  
a  
d

S  
A  
M  
I  
L  
B  
B  
B  
A  
A  
a  
r  
r  
o  
w  
  
S  
A  
M  
I  
L  
S  
M  
B  
B  
B  
A  
A  
e  
d  
i  
u  
m  
  
S  
A  
M  
I  
L  
B  
B  
B  
A  
A  
a  
r  
r  
o  
w

We have also filters from LAM (Laboratoire d'Astrophisique du Marseille, France) and we may add information about these filters very soon.

The astronomer can also request any other filter listed in the [Filters Available at SOAR](#) [6] page. CTIO filters are also available. The main constrain is that the filters may be 3 x 3 inches squared or round with 3 inches diameter.

---

**Source URL:** <http://www.ctio.noao.edu/soar/content/sam-fp>

**Links**

[1] [http://www.ctio.noao.edu/soar/sites/default/files/SAM-FP\\_call\\_rev.pdf](http://www.ctio.noao.edu/soar/sites/default/files/SAM-FP_call_rev.pdf)

[2]

[https://watermark.silverchair.com/stx976.pdf?token=AQECAHi208BE49Ooan9kKhW\\_Ercy7Dm3ZL\\_9Cf3qfKAc485ysgAAAa0wggGpBgkqhkiG9w0BBwagggGaMIIBIglBADCCAY8GCSqGSIb3DQEHATAeBgIghkgBZQMEAS4wEQQMx6HNNHeu5E902DyFAGEQglIBYAT1jzOwSq4VGjV0lpCcwL3WGdJDN0g43EHnnNKIZGjH5UQDhv4zM5npXHzEmujnT6rBYLALC09A6Ds-4YJeZJ35lKqU9Sley0ITTqVJASVyFITSZEozcr6bx-](https://watermark.silverchair.com/stx976.pdf?token=AQECAHi208BE49Ooan9kKhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAa0wggGpBgkqhkiG9w0BBwagggGaMIIBIglBADCCAY8GCSqGSIb3DQEHATAeBgIghkgBZQMEAS4wEQQMx6HNNHeu5E902DyFAGEQglIBYAT1jzOwSq4VGjV0lpCcwL3WGdJDN0g43EHnnNKIZGjH5UQDhv4zM5npXHzEmujnT6rBYLALC09A6Ds-4YJeZJ35lKqU9Sley0ITTqVJASVyFITSZEozcr6bx-)

[iqG3SgG2Jqea4vEUHxZ3uB2UbrhMORXSvSjFgkXOmjy-9iS-9hwlr2LXCOy4gr\\_ppWL7nAqASqpBJlar\\_ebThwz5pdBfQOf2q1PNeI](https://watermark.silverchair.com/stx976.pdf?token=AQECAHi208BE49Ooan9kKhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAa0wggGpBgkqhkiG9w0BBwagggGaMIIBIglBADCCAY8GCSqGSIb3DQEHATAeBgIghkgBZQMEAS4wEQQMx6HNNHeu5E902DyFAGEQglIBYAT1jzOwSq4VGjV0lpCcwL3WGdJDN0g43EHnnNKIZGjH5UQDhv4zM5npXHzEmujnT6rBYLALC09A6Ds-4YJeZJ35lKqU9Sley0ITTqVJASVyFITSZEozcr6bx-)

[xKw4EygwCtD6z9d1hMhQs1TZ4IMDj5n0nyNGtdcw6h1sVelHHdGnaj3yWN2KrnKal-](https://watermark.silverchair.com/stx976.pdf?token=AQECAHi208BE49Ooan9kKhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAa0wggGpBgkqhkiG9w0BBwagggGaMIIBIglBADCCAY8GCSqGSIb3DQEHATAeBgIghkgBZQMEAS4wEQQMx6HNNHeu5E902DyFAGEQglIBYAT1jzOwSq4VGjV0lpCcwL3WGdJDN0g43EHnnNKIZGjH5UQDhv4zM5npXHzEmujnT6rBYLALC09A6Ds-4YJeZJ35lKqU9Sley0ITTqVJASVyFITSZEozcr6bx-)

[vTvis7xrxZ21xVEGdCgKCC36vGCwcyifyOzle5UwwWEmGHug8v2ffxiGm8JZJ09YTpTEApZ6gY8Oot8B26O9O3L9BrBYdcFj\\_iwcMXcAXQawd7Dx8ff9FUPxrygWOZ5OfQ3CecNz3ylq6zFEqO9mTwSRnzOsz-oPdGvAn000VKTyNNOGDU](https://watermark.silverchair.com/stx976.pdf?token=AQECAHi208BE49Ooan9kKhW_Ercy7Dm3ZL_9Cf3qfKAc485ysgAAAa0wggGpBgkqhkiG9w0BBwagggGaMIIBIglBADCCAY8GCSqGSIb3DQEHATAeBgIghkgBZQMEAS4wEQQMx6HNNHeu5E902DyFAGEQglIBYAT1jzOwSq4VGjV0lpCcwL3WGdJDN0g43EHnnNKIZGjH5UQDhv4zM5npXHzEmujnT6rBYLALC09A6Ds-4YJeZJ35lKqU9Sley0ITTqVJASVyFITSZEozcr6bx-)

[3] <http://www.ctio.noao.edu/soar/content/creating-targets-lists-soar>

[4] <http://www.ctio.noao.edu/soar/content/fabry-perot-numbers>

[5] <http://www.ctio.noao.edu/soar/content/filters-sam-fp>

[6] <http://www.ctio.noao.edu/soar/content/filters-available-soar>