



AI Conrad &lt;aconrad@lbto.org&gt;

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**Re: [SHARK - NIR] Verification of ASM spider orientation**

1 message

**Jennifer Power** <jpower@lbto.org>

Wed, Oct 26, 2022 at 12:49 AM

To: "Marafatto, Luca" &lt;luca.marafatto@inaf.it&gt;

Cc: Patrick Hartley &lt;phartley@lbto.org&gt;, Greg Taylor &lt;gtaylor@lbto.org&gt;, Jacopo Farinato &lt;jacopo.farinato@inaf.it&gt;, Maria Bergomi &lt;maria.bergomi@inaf.it&gt;, Davide Greggio &lt;davide.greggio@inaf.it&gt;, AI Conrad &lt;aconrad@lbto.org&gt;

Hi Luca,

I am supporting night OPS so am unavailable until after Nov 8th.

I want to verify the planned test. We would have to align with the wfs at its nominal XY stage positions. This would be necessary to verify the source and close loop. We could then save a reasonable flat, open loop and park the Y stage at the zero position but with no AO correction. Is that the test you have in mind?

When do you want to execute this test?

Jenny

On Tue, Oct 25, 2022, 10:36 AM Marafatto, Luca &lt;luca.marafatto@inaf.it&gt; wrote:

Ciao Pat, Jenny, Greg,

There is one very important verification we would like to do on SHARK-NIR, which is checking the orientation of ASM spiders wrt our internal apodizing masks.

To do this we shall simply acquire a pupil image with ASM deployed and telescope authorized to SHARK-NIR (using the last value found the last day of Pre-Com-2), using the dome lights as source.

This would also need the SOUL-LBTI-SX to be in its home position (in particular  $Y = 0$ ), to avoid collisions with our deployable arm, as we would need it deployed.

We tried acquiring them while we were there but there is something wrong with that images and they are unuseful...

I am sorry to ask for this extra support and time from your side, but the result of this check might also impact the activities of the next run, so we would prefer to check this in advance.

Is there a free slot in the next few days, or even today, we could use to take such an image?

Would Jenny or Greg be available just the time for authorizing SHARK-NIR and confirm that SOUL is in  $Y = 0$  position so that I can deploy our deployable arm safely?

Thanks a lot!

Cheers,

Luca

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