



Al Conrad <aconrad@lbto.org>

Shark NIR and SOUL WFS interference

5 messages

Alessandro Cavallaro <acavallaro@lbto.org>

Thu, Oct 13, 2022 at 12:54 AM

To: Al Conrad <aconrad@lbto.org>, Steve Ertel <sertel@lbto.org>, Oli Durney <odurney@lbti.org>, "Montoya, Oscar M - (omm)" <omm@arizona.edu>, "West, Grant" <gwest@email.arizona.edu>, Jennifer Power <jpower@lbto.org>
Cc: Jacopo Farinato <jacopo.farinato@inaf.it>

Dear all,

Jacopo, Luca and I ran a test for the interference of the Shark NIR deployable arm and the SOUL WFS yesterday while on the telescope for the installation of the arm.

I put together this short report:

<https://docs.google.com/document/d/19-5LZ8SNKObjuwFLVIXkfG0Vo3x1GccDWP48t3gWh0/edit?usp=sharing>

As you will see, the WFS needs some modifications before going "on-sky", but it can be used (with no cover installed) for closed dome tests.

I can be available to help modify the WFS in the weeks to come.

The document and a bunch of pictures (not labelled that will be used later) live in this folder:

<https://drive.google.com/drive/folders/1j9ZahqKZDCgQEpCOPDrbkfG4HtLkryph?usp=sharing>

Please forward this to the appropriate audience.

Thank you,

Alessandro Cavallaro, Ph.D.

Instrument Engineer

Tel: +1 (520) 419 - 2041

Large Binocular Telescope Observatory

University of Arizona

[933 N. Cherry Ave. Room 559](#)

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Alessandro Cavallaro <acavallaro@lbto.org>

Thu, Oct 13, 2022 at 1:09 AM

To: Al Conrad <aconrad@lbto.org>, Steve Ertel <sertel@lbto.org>, Oli Durney <odurney@lbti.org>, "Montoya, Oscar M - (omm)" <omm@arizona.edu>, "West, Grant" <gwest@email.arizona.edu>, Jennifer Power <jpower@lbto.org>, Mark Smithwright <msmithwright@lbto.org>
Cc: Jacopo Farinato <jacopo.farinato@inaf.it>

Included Mark in the list.

Jacopo, if I forgot anything please feel free to add it.

Alessandro Cavallaro, Ph.D.

Instrument Engineer

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Al Conrad <aconrad@lbto.org>

Thu, Oct 13, 2022 at 1:20 AM

To: Maria Bergomi <maria.bergomi@inaf.it>, Luca Marafatto <luca.marafatto@inaf.it>
Cc: Steve Ertel <sertel@lbto.org>, Oli Durney <odurney@lbt.org>, "Montoya, Oscar M - (omm)" <omm@arizona.edu>, "West, Grant" <gwest@email.arizona.edu>, Jennifer Power <jpower@lbto.org>, Mark Smithwright <msmithwright@lbto.org>, Jacopo Farinato <jacopo.farinato@inaf.it>, Alessandro Cavallaro <acavallaro@lbto.org>

Hi -

I am adding Maria and Luca.

Thanks,

Al

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Alessandro Cavallaro <acavallaro@lbto.org>

Thu, Oct 13, 2022 at 8:46 PM

To: Al Conrad <aconrad@lbto.org>, Steve Ertel <sertel@lbto.org>, Oli Durney <odurney@lbt.org>, "Montoya, Oscar M - (omm)" <omm@arizona.edu>, "West, Grant" <gwest@email.arizona.edu>, Jennifer Power <jpower@lbto.org>, Mark Smithwright <msmithwright@lbto.org>, Enrico Pinna <enrico.pinna@inaf.it>, Maria Bergomi <maria.bergomi@inaf.it>, Luca Marafatto <luca.marafatto@inaf.it>
Cc: Jacopo Farinato <jacopo.farinato@inaf.it>

I realized that I forgot to include Enrico in the list.

I believe that SX LBTI SOUL responsibility falls under you, Enrico, correct? Or LBTI?

Alessandro

On Oct 12, 2022, at 4:09 PM, Alessandro Cavallaro <acavallaro@lbto.org> wrote:

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Steve Ertel <sertel@lbto.org>

Thu, Oct 13, 2022 at 9:50 PM

To: Alessandro Cavallaro <acavallaro@lbto.org>
Cc: Al Conrad <aconrad@lbto.org>, Oli Durney <odurney@lbt.org>, "Montoya, Oscar M - (omm)" <omm@arizona.edu>, "West, Grant" <gwest@email.arizona.edu>, Jennifer Power <jpower@lbto.org>, Mark Smithwright <msmithwright@lbto.org>, Enrico Pinna <enrico.pinna@inaf.it>, Maria Bergomi <maria.bergomi@inaf.it>, Luca Marafatto <luca.marafatto@inaf.it>, Jacopo Farinato <jacopo.farinato@inaf.it>

Hi everybody,

I believe this is the same collision we've been discussing for a long time and that we are now seeing. Modifying the WFS cover to avoid this was the responsibility of LBTO as far as I understand. When working on this modification, please be aware that the board not only moves up/down but also left/right and in/out. The whole range of this board needs to be surveyed to figure out what modifications need to be done, and there should be plenty of margin to allow for possible re-alignment of the board in the future.

Best,
Steve

We work flexible hours across a number of time zones. I value your work-life-balance and am not expecting you to read or respond outside of your normal work hours. In rare exceptions, I will explicitly point out the urgency of my message and I apologize in advance should this be necessary.

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Dr. Steve Ertel
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