UNIVERSITY OF ALBERTA

**Jason Myatt <myatt@ualberta.ca>**

# Brief Zoom meeting?

**Solodov, Andrey** <asol@lle.rochester.edu> Wed, Jun 17, 2020 at 10:44 AM
To: "Rosenberg, Michael" <mros@lle.rochester.edu>, Jason Myatt <myatt@ualberta.ca>

Hi Jason,

The simulations for the 700-um spherical targets used laser beams incident at 23.2 deg off of the axis, pointed to the center of the sphere. The beams profile in the simulations is SuperGaussian of the $8^{th}$ order with the radius at the 1/e intensity point of 343.877 um. This is a sufficiently good approximation of the actual beam profile provided by the “SG8-0750” phase plate.

Andrey

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**From:** Rosenberg, Michael <mros@lle.rochester.edu>
**Sent:** Wednesday, June 17, 2020 12:07 PM
**To:** Jason Myatt <myatt@ualberta.ca>; Solodov, Andrey <asol@lle.rochester.edu>
**Subject:** Re: [EXTERNAL] Brief Zoom meeting?

Hi Jason,

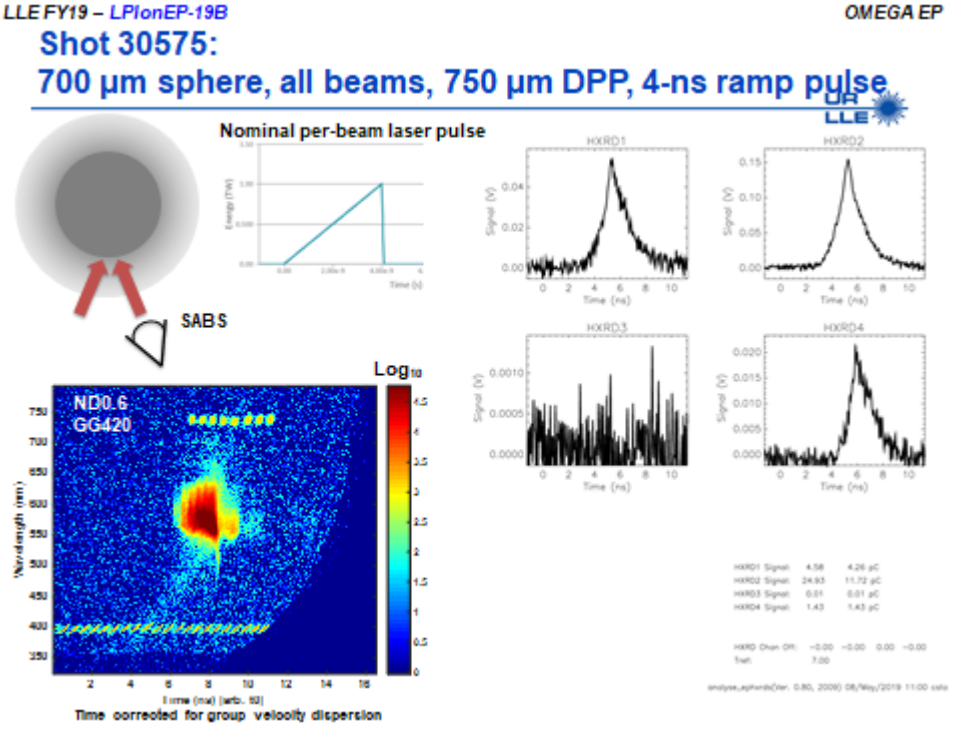
Very exciting update. This will be a powerful capability to help us interpret SRS spectra on OMEGA EP and NIF. The Thomson scattering feature will also be extremely valuable towards understanding that data.

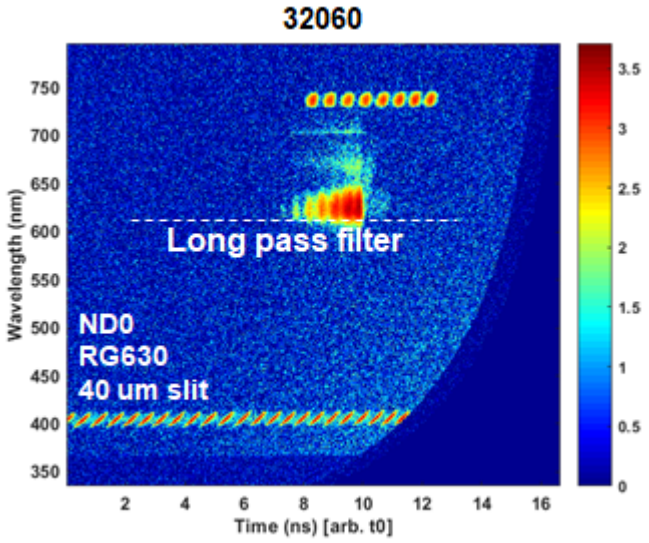
In terms of the info you asked about: the 700 um sphere with 4-ns ramp pulse and all 4 beams were shots 30575 and 32060. See some snippets of data below. Hopefully Andrey used the same parameters in DRACO:

- The beams were pointed to the center of the sphere
- Beams are incident 23.2 degrees off of the axis
- Beam spot is called "SG8-0750", i.e. 750-um superGaussian of order 8, but that's just nominal. Andrey probably has a more exact profile
- I will ask about the SABS acceptance angle

Thanks,

Mike

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