The OMEGA Users Group and Workshops: Opportunities for Basic HED Science



Who are the OMEGA Users?

- 172 scientists students, academics, researchers-- who come from:
 - 24 Universities
 - Over 20 National laboratories and Centers
 - 9 different countries...

At our workshop today:

- 115 registrants.....maximum capacity (turned folks away after 14 April)
- 45 students/postdocs/young researchers, of which 37 were given travel support by NNSA grant
- 60 contributed posters and talks ---today and tomorrow

What are the workshop objectives?

- 1. To present on-going and proposed research at OMEGA, and to facilitate communications and exchanges amongst the Users
- 2. To advise and recommend to the OMEGA management ways to improve the facility and to advance HED Science
- 3. To provide an exciting opportunity for students and postdocs to present and discuss their research in an interactive yet cordial atmosphere
- 4. To initiate collaborations that can be undertaken in a complementary fashion at NIF, LULI,....;

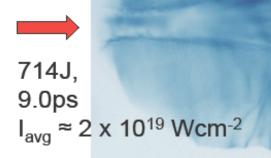
An example of cutting-edge results comes from last weeks OMEGA-EP experiments by L. Willingale et al, Poster II-13, and in thur talk.

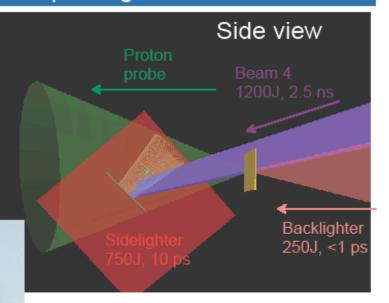


Proton probing of channel formation

L Willingale, A Maksimchuk, K Krushelnick (University of Michigan), PM Nilson, S Craxton, TC Sangster, C Stoeckl (LLE), W Nazarov (University of St Andrews), J Cobble (LANL), PA Norreys, R Scott (CLF, RAL)

- An underdense target is created using B4 to produce a CH plasma plume.
- 750J, 10ps laser pulse propagates through the plasma plume.
- Proton probing images the quasi-static electromagnetic fields present in the interaction.





Poster on last weeks results (Wed pm): Omega EP laser propagating through underdense plasma

Talk will focus on the proton probe diagnostic (Thurs pm): Proton probing of a 1 kJ, 10 ps laser pulse interaction with underdense to nearcritical density plasma

Announcements:

- Workshop photo at 12:30 in lobby (today)
- Sign up for OMEGA/ OMEGA-EP tours (at lunch today, thru, friday)
- Dinner at Delmonico's ... thur
- Job forum for young researchers (Friday)
- Bi-monthly OMEGA Users Newsletter.... The OUN
- Plans are underway for next years workshop of 27-29 April 2011

Acknowledgements

NNSA for travel suport of students and postdocs

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 To LLE generous assistance and support throughout the entire process