

Minutes of Phone Meeting 3

Meeting of November 21, 2011

Please send any important corrections and/or additions.

Phone Meeting 3

Today's date: 11/21/2011

Present: Toro, Jaros, Schuster, Essig, Ritz, Gasparian, Batell, Bossi, Mueller, Merkel, Yavin, Boyce, Buckley, Pivovarov, Baker, Markowitz, Fisher, Sikivie, Cowan, Stepanyan, Wester, Gershtein, Lindner, Ringwald, Echenard, Carosi, + a few "Call-in Users"

Meeting slides are available from:

<https://twindico.hep.anl.gov/indico/categoryDisplay.py?categId=34>

WG Agenda on indico:

<https://twindico.hep.anl.gov/indico/conferenceOtherViews.py?view=standard&confId=751>

Our working group's website (with data sheets + all meeting minutes) is:

<https://confluence.slac.stanford.edu/display/hspawg/Intensity+Frontier+Workshop>

Meeting Summary:

John began the meeting reviewing news from the last conveners meeting (**see slides**). >500 people have signed up for the workshop. The introductory plenary talk will be given by Neal Weiner. The summary plenary talk will be given by a convener (Rouven).

Rouven then reviewed the agenda, goals of the talks, discussion session, and poster session (**see slides**). Four theory overview talks (35'+5') will be given, plus two shorter theory talks (15'+5'). They should be broad overview talks, with the theory and motivation behind the various particles. The agenda is rather packed, **so we will have to enforce strict time limits**.

There are **three discussion sessions**. For the discussion sessions, 5 minute talk requests were made. We had the following suggestions (please send corrections!):

Technology Section: (led by Tanner)

- Tanner: Introduction
- Lamm: Magnet Technology
- Carosi: SC cavities/ New squid amps
- Pivovara: IAXO x-ray detector needs
- Mueller: Alignment for LSW

Accelerator: (led by Arne Fryberger who will also give a talk)

- Boyce: FEL developments (if not covered by Freyberger)
- Batell: proton beam requirements

New Ideas:

- Graham: Extending the range of HPS
- Schuster: More signatures from the Hidden Sector
- Zioutas: WISPS in Space
- Buckley: Probing leptophobic hidden photons with Project X

The Ideas Forum session should also be used to bring up **general questions/ideas**. These include:

- Holtrop: what can other groups (e.g. in astro) do to discover some of the particles? Upadhye will include back-up slides to this effect.
- What can LHC do?
- Sikivie: New ideas and questions for the group. This is a very good point, and we emphasize that contributions to the discussion session do not have to be in the form of 5-minute talks, but can be in the form of e.g. a question that raise a discussion.

Echenard pointed out that there is not too much time for discussion. It is true that the schedule is rather full, so we will enforce the time-limit for each talk. We ask all speakers to adhere to the time limit. On Thursday, there is a long discussion session that can, in principle, go until 7pm.

Posters: three posters were suggested so far (APEX, HPS, Hunting DM with NuSTAR and Axion Helioscope). Others are welcome! Please let us know asap. Posters allow us to reach a wider audience.

John suggested an outline of the written document (**see slides**). Ringwald raised the issue that several experiments are sensitive to more than one type of particle. It may make sense to have a theory summary/overview at the beginning where the various particles are discussed separately, followed by various experimental technique (e.g. light shining through a wall, electron-fixed-target experiments etc) with a discussion of existing experiments and what they can probe. There will have to be cross-referencing. We will devote some more thought to the outline.

Any questions? Let us know!

See you next week at the workshop!