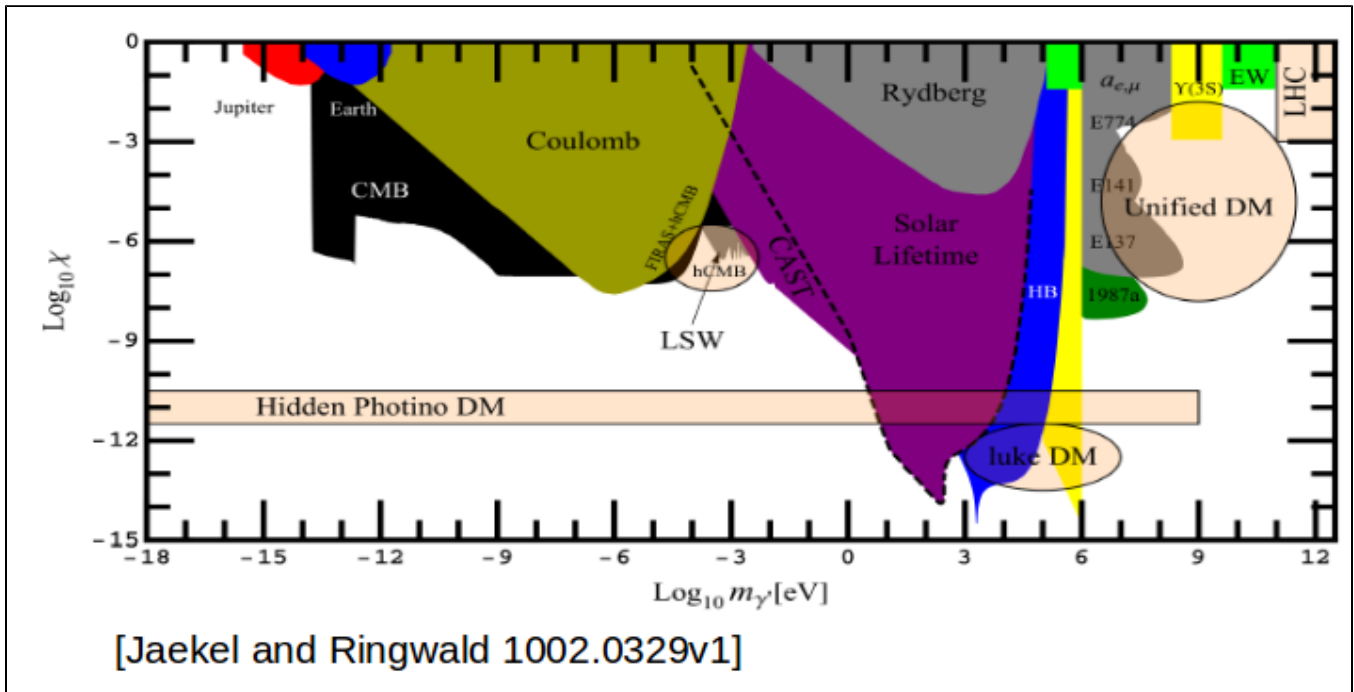


Intensity Frontier Workshop

Hidden Sector Photons, Axions, and WISPs Working Group

Purpose



The "Hidden Sector Photons, Axions, and WISPs Working Group" is one of the six working groups exploring new physics opportunities for the Intensity Frontier (<http://www.intensityfrontier.org/>). Our Working Group will examine the physics behind searches for hidden sector photons, axions, and Weakly Interacting Sub-eV Particles (WISPs), the scientific opportunities presented by such searches, the facilities and technologies required for these searches, and how new facilities and technologies can expand them. Our goal will be to present a compelling case for this physics at the Intensity Frontier Workshop, demonstrate interest in both the Nuclear Physics and High Energy Physics communities, and characterize on-going and future research possibilities. Our group is responsible for summarizing its findings in a written report to DOE, 20-50 pages in length, to be submitted within two months of the Workshop.

Conveners

Juan Collar (collar@uchicago.edu), Rouven Essig (rouven.essig@stonybrook.edu), and John Jaros (john@slac.stanford.edu)

Interim Meetings

We are planning 2-3 Working Group phone meetings before the Intensity Frontier Workshop itself. We'll discuss the goals of this group, survey experiments being planned or proposed, review theoretical developments, plan presentations at the Workshop, and prepare writing our report. We urge everyone interested to attend these meetings.

We will hold phone meetings on October 24 ([minutes](#)), November 7 ([minutes](#)), and November 21 ([minutes](#)). Meetings will be held at 9AM Pacific.

Information about the phone meetings, including phone in instructions, is given on the HPSA WG indicio page: <https://twindico.hep.anl.gov/indicio/categoryDisplay.py?catelid=34>

Meeting Minutes

Minutes from our meeting on October 24, 2011 are [here](#).

Minutes from our meeting on November 7, 2011 are [here](#).

Minutes from our meeting on November 21, 2011 are [here](#).

Data Sheet

In order to survey all the current and planned experiments, we ask all interested participants to fill out the following form, preferably in latex, and send it to the conveners. [template.pdf](#) [template.tex](#)

Here are some data sheets that we have already received:

- Oliver Baker (LIPSS) ([pdf](#), [figure](#))
- Fabio Bossi (KLOE) ([pdf](#))
- Ray Cowan (Dark Light) ([pdf](#))
- Achim Denig (Mainz) ([pdf](#))
- Bertrand Echenard (BaBar, Super-B) ([pdf](#))
- Matt Graham (HPS) ([pdf](#))
- Andrew Haas (ATLAS, D0) ([pdf](#))
- Igor Irastorza (IAXO) ([pdf](#))
- Jaegle (Belle) ([pdf](#))
- A. Lindner, J. Redondo, A. Ringwald, M. Schwarz, G. Wiedemann (SHIPS) ([pdf](#))
- Axel Lindner & Andreas Ringwald (ALPS) ([pdf](#))
- Rhys Povey, John Hartnett, Michael Tobar (UWA microwave cavity) ([pdf](#))
- Surjeet Rajendran (MADAME) ([pdf](#))
- Philip Schuster (APEX) ([pdf](#))
- David Tanner (REAPR) ([pdf](#))
- Devin Walker, L. A. Moustakas, and K. Sigurdson (OMEGA) ([pdf](#))
- William Wester (GammeV, GammeV-CHASE) ([pdf](#))
- Bogdan Wojtsekhowski (VEPP-3) ([pdf](#))
- Konstantin Zioutas (CAST) ([pdf](#))

Working Group Report

Our working group report can be found here: [hspaw.pdf](#)

The Intensity Frontier Workshop

Register for the Workshop at <http://www.intensityfrontier.org/> . Plan to attend. We expect the Workshop to consist of 1/2 day of opening plenaries, 1 and 1 /2 days of parallel sessions for working group talks and preparations, and 1 day for plenary summaries of all the working groups.

Working Group Registration

See [current list of participants](#).