

Surveying Experiments & Opportunities

- Want to review the state of hidden sector physics over the next several months: Natalia, Rouven, Philip will coordinate**
 - **what is the parameter space for visible and invisible A' decays?**
 - **what are some important targets in that parameter space to cover?**
- EST are writing a review article to be finished by April 2015 in any case**
- Hope to start with two short talks and discussions during the NEXT meetings. May ask for help...**

Surveying Experiments & Opportunities

- In planning for the future, we should perhaps scrutinize what is currently being planned
 - Visible: SeaQuest, LHCb, Belle-II, Cornell, mu3e, meson decays, SHIP, LHC (higgs)...
 - Invisible: Direct detection (various), CERN missing energy, Neutrino beam-dumps, BDX, Belle II, Cornell, DarkLight, LHC...
- As we've seen many times before, initial claims of reach are often overstated, or even badly wrong, so let's be careful
- Suggestion: theorist + experimentalist (one each?) team up and scrutinize existing ideas, and report back
 - strengths and weaknesses?
 - useful take-away lessons?
 - a reason to focus elsewhere or not in future planning?

New Experiments @ SLAC

- What about ideas for SLAC?
- Beam dump LDM experiment at SLAC?
 - homework?
 - beam backgrounds?
 - threshold vs. signal yield -- (Gordan & Eder)
 - threshold vs. background?
- How to use the dark current?
 - Missing Momentum Exp?
 - Super-HPS (a la Snowmass Tim & Matt)?
 - ...?