



PROPOSAL FOR SHIP PAPERS

Walter







Rationale

With SHiP we have some difficulties compared to other experiments in our labs:

- every year we have to fight for funding (LHC...)
- not approved yet
- long time before experiment starts
- difficult to find students and post-docs...
- no publications for experimentalists (bad for experiment evaluation and for career, it is country dependent but should not be neglected)







Rationale

What can we do to improve NOW the situation?

PUBLICATIONS in JOURNALS!!!!!

But, we cannot publish things that already published such as the PP

However, the TP IS UNPUBLISHED (we should have done it yes but as a matter of fact, we didn't): it is public but not published

So in principle we could publish everything that is described in the TP and not contained in the PP, updating the material to more recent studies.







SIGNATURE POLICY

We would like to start from a "light" proposal and keep it flexible

For papers of general SHIP interest (TP-based studies) all CN should sign.

Either have the main authors of the study first or alphabetic order and writing accompanying internal notes (like SHiP-PAPER-001) —> the feeling of the CRB is that we should se how it goes when the first publication arrives

Signature policy of test beam results publications will be upon discretion of authors (some people requested it)

For papers done in collaboration with theorists who are not members of SHiP a special procedure should be setup (by e.g the SP and PC) to agree on tools and signatures and again there could be a shorter list if requested







MOST IMPORTANT

It is FORBIDDEN to published with a small list of authors AND writing "on behalf of SHIP" or "and the SHIP collaboration"

either you put everybody

or just the names of authors







Initial set of papers that could be signed by the whole CN (with some contact-author names)

SHiP facility—> Richard, Goddard

SHiP Computing and Simulation—> Thomas

SHiP DAQ -> Hans

Muon shield —>Hans

NP in tau neutrino scattering —>Walter, Behzad

Dark Matter sensitivity —>Andrei, Giovanni









Eric has checked that since we have CERN authors we don't have to pay for publication

The list of authors is kept updated by Eric







Practical proposal

CERN repository or Dropbox folder where all the directory files with the relevant files are located.

If needed I offer to poll the journals for who is wishing to publish this kind of papers.

We could provide a skeleton section like "SHIP experiment" that all papers could use. Who will write this?

When a paper is ready it will be circulated (by me) to the whole collaboration for comments as in all collaborations







The first one

Sensitivity of the proposed SHiP beam dump experiment at CERN to lepton universality violations in ν_{τ} scattering

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Abstract

We discuss here the sensitivity of the proposed SHiP beam dump experiment at CERN to lepton universality violations in ν_{τ} scattering. The SHiP experiment includes a detector designed to detect ν_{τ} scattering, inheriting the design form the OPERA experiment at LNGS. The experiments aims at collecting a large statistics of ν_{τ} interaction events, about 200 times the present one. Differential cross section measurements would allow to constrain models of scalar tensor interactions

Keywords:



Preprint submitted to Physics Letters B

October 27, 2016







As Richard said detector design is updated continuously and we need to present things cohenrently.

In the conf page I will create a repository for a set of plots that need to used for presentations (and given to the other people presenting SHiP)

example: latest frustum decay volume design

