

The CERN Beam Dump facility and the Proposed SHiP experiment: Physics Case and Opportunities for German groups

Introduction

**Heiko Lacker, (HU Berlin)
26.03.2020**

A virtual Welcome!

**On behalf of the German SHiP groups
(Berlin, Bonn, Hamburg, Jülich, Mainz):
Welcome to this virtual workshop!**

We hope that you are all well!

**A particular welcome to the external speakers
(E. Elsen, J. Jäckel, C. Vallée, M. Lamont;
A. Golutvin, N. Serra, R. Jacobsson (SHiP);
G. Wilkinson (tauLFV))**

and to W. Ehrenfeld (PT DESY)

Hopefully, the internet works reasonably well

Practical Issues

- * If you have not registered yet, please do so now:
It eases short-term announcements about technicalities**
- * If you are a presenter:**
 - please upload your talk well in advance**
 - please always say, which slide you are on**
- * Please mute always, if you are not speaking**
- * Please switch off your camera (to save bandwidth)**
- * If possible, do not use Wireless (not trivial these days)**
- * If possible, please use a headset**

Goal of the workshop

- * **Expect decision on SHiP/BDF approval to go for TDR in 2020
→ TDR phase up to 2023/24**
- * **BMBF strategy meeting end of May 2020 (after CERN council)
to prepare announcement of the next funding period (2021-2024)**
- * **The stronger the German interest/contributions for SHiP/BDF,
the higher the chance for support of the TDR phase & beyond**
- * **This workshop provides the opportunity to start
discussing interest/contributions from new groups
as input to the BMBF strategy meeting end of May**

Content of the workshop

26.3.2020

* Embedding in *Physics Beyond Collider* and *ESPPU*

“The preparatory study of the BDF facility is now mature and a decision should be taken on its implementation following this Strategy update.”

(ESPPU briefing book)

* Physics case for Dark-Sector Physics,
Beam-Dump Facility@SPS

* Two talks about *SHiP*

* One dedicated talk about *tauLFV*

Content of the workshop

27.3.2020

- * More details on the SHiP experiment as a technical project**
- * Presentations on three subdetector systems (Straw Tracker; Surround Background Tagger; ECal) as well as on Electronics with significant German contributions**
- * Present already performed/planned physics measurements: muon flux; charm production**
- * Final discussion**
 - Also opportunity launch discussing possible interests or arrange for dedicated follow-up meetings**