

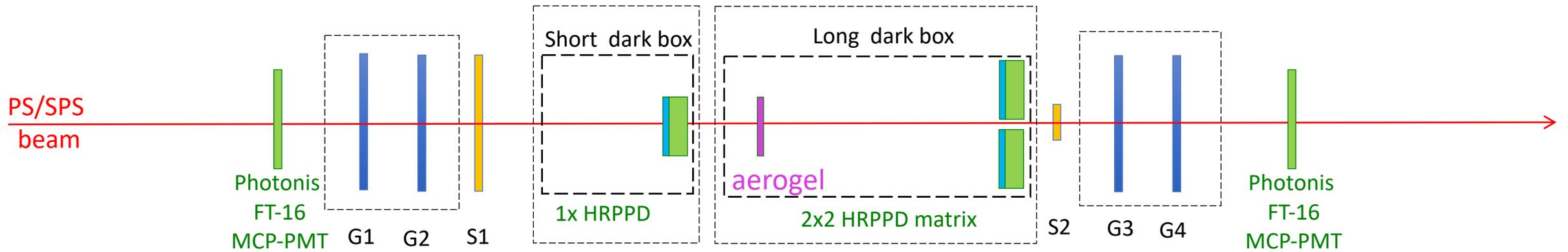
Update on pfRICH beam test(s) at CERN SPS / PS in 2026

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pfRICH DSC meeting, January 29, 2026

Configuration and timelines

- Bring a simplified setup (no full-size vessel in particular)
- Collaborate with dRICH people (similar program, experience @ CERN, etc)



S1&S2: trigger scintillators; G1..G4: GEM trackers (may be problematic)

- 1 week at SPS (high energy)
 - Either April 29 – May 6 or May 27 – June 3 /TBC; starting on May 27 is a dRICH preference/
- 2 weeks: June 10-24 at PS (low energy)

Miscellaneous

- It looks like funding is available
 - Need to calculate a budget and defend the scope (a concise proposal is required)
 - PS H8 beam line seems to have a plenty of low-energy electrons (see attached paper): claim e/π separation?
- Some of the hardware is missing
 - Custom HRPPD backplane (remember, we only have 512 DRS4 channels), mechanical integration, etc
- GEANT modeling needs to be performed
- Need to kind of replicate our B-field computing / software setup
 - But with some elements of an offline Cherenkov ring analysis
- Identify people to set things up and staff 24/7 shifts afterwards
 - Experts expected to come to CERN few days in advance
 - Remember: SPS -> PS transition is between two different sites at CERN (see attached talk)
- Accounts, badges, training, freight, flights, accommodation, etc