

NuSTORM
26-26 March 2013
CERN

Welcome and introduction

Welcome

- Coffee breaks: we may need to go to the restaurant, self service
- Dinner transportation has to be timely:

26 Mars 18 :10 de 18 :10 Bat 866 aile D et dépôt des personnes au restaurant 1 (Glassbox)

- [864-1-C02](#) tomorrow
- Please keep timing!
- Hope you will enjoy
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864-1-C02



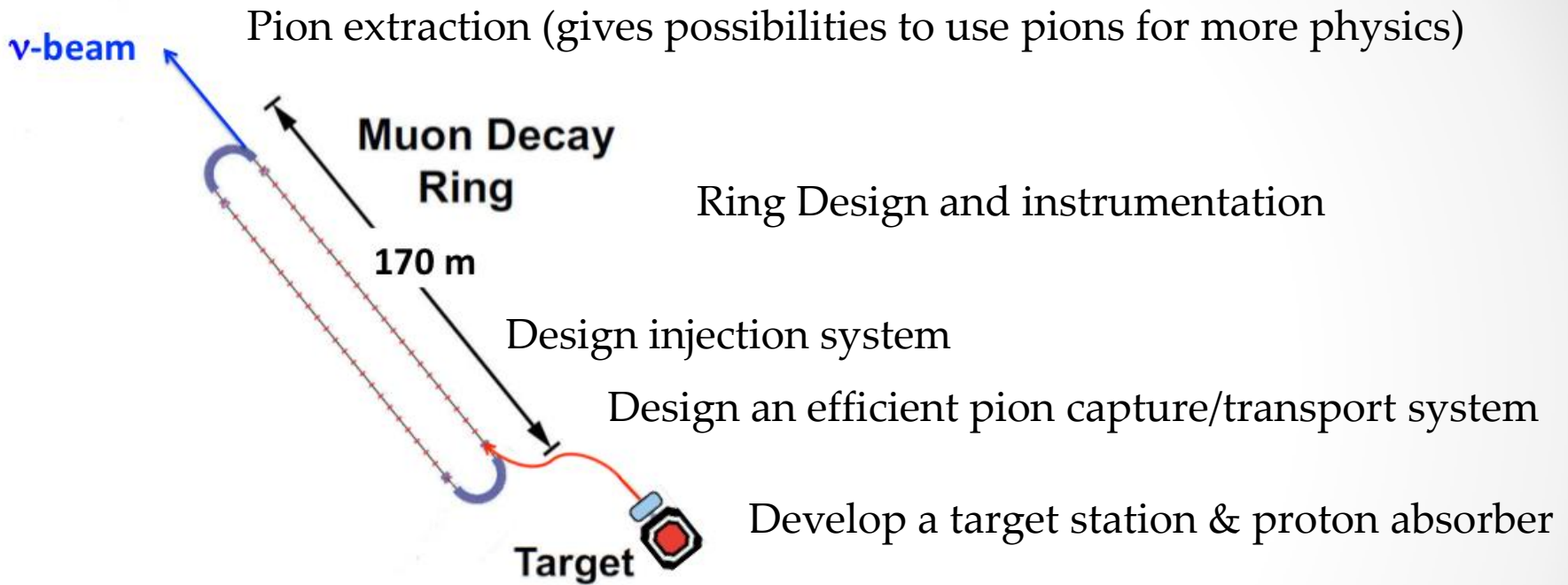
Next Generation neutrino facilities

- EU Strategy
 - Long Baseline (MH, CP)
 - World Wide Collaboration
 - Staging
- How to get there
 - Building test Facilities including crucial Technology Features
 - Evaluate, with accuracy, physics reach and potential for high precision measurement facilities
 - Worldwide collaborative efforts to pave the way to a high precision neutrino and muon program
- ν STORM gives essential opportunities to evaluate/test
 - Production/capture of pions
 - Transport/Injection
 - Magnets
 - Instrumentation/Diagnostics
 - Detectors
 - Etc.
- ν STORM has discovery potential
 - ν_e and $\bar{\nu}_e$ cross-section
 - Sterile neutrinos
 - ...

Workshop aim

- Set up and sign an EOI to get support to:
- Investigate in detail how ν STORM could be implemented at CERN (CDR, TDR)
- Develop options for decisive European contributions to the ν STORM facility and experimental programme if ν STORM done elsewhere
- ν STORM would give essential information to go further to develop neutrino/muon physics facilities

The facility



Find a suitable proton beam
(Energy, pulse length, structure, etc.)

νSTORM potential compared
classical neutrino production
on target