

# The 19th International Workshop on Neutrinos from Accelerators (NUFACT2017)



Contribution ID: 131

Type: **talk**

## Towards nuSTORM facility - overview of accelerator designs

*Wednesday, 27 September 2017 12:00 (30 minutes)*

The neutrino beam originating from muons decaying in a storage ring is an ideal tool for precise neutrino cross section measurements due to its exactly known flavour content, including both muon and electron ones, and spectrum. The proposed nuSTORM facility would use pions directly injected into a race-track storage ring, where circulating muon beam would be formed. The sketch of the nuSTORM facility is discussed. The alternative storage ring designs including a FODO and FFAG (Fixed Field Alternating Gradient) based ones are presented in details including their estimated physics potentials.

**Primary author:** Dr PASTERNAK, Jaroslaw (Imperial College London/ISIS-RAL-STFC)

**Presenter:** Dr PASTERNAK, Jaroslaw (Imperial College London/ISIS-RAL-STFC)

**Session Classification:** WG3: Accelerator physics

**Track Classification:** Working Group 3: Accelerator Physics