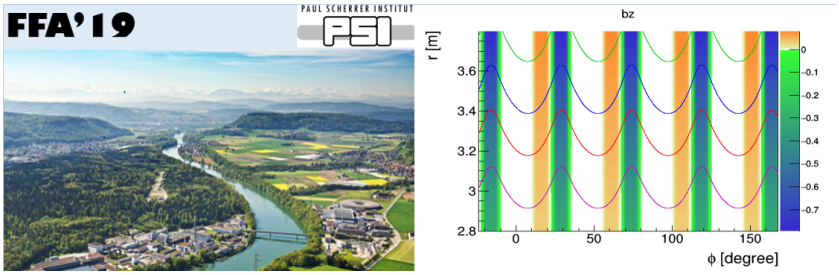

Contribution ID: **26** Type: **not specified**

nuSTORM decay ring

Wednesday 20 November 2019 11:45 (45 minutes)

Precise neutrino cross section measurements and search for sterile neutrinos can be done with neutrino beams produced from muons decaying in a storage ring due to its precisely known flavour content and spectrum. In the proposed nuSTORM facility pions would be directly injected into a racetrack storage ring, where circulating muon beam would be captured. The storage ring has three options: a FODO solution with large aperture quadrupoles, a racetrack FFA (Fixed Field Alternating gradient) using the recent developments in scaling FFAs and a hybrid solution of the two previous options. Machine parameters, linear optics design and beam dynamics are discussed in this talk.

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Session Classification: Future / New Designs and Applications