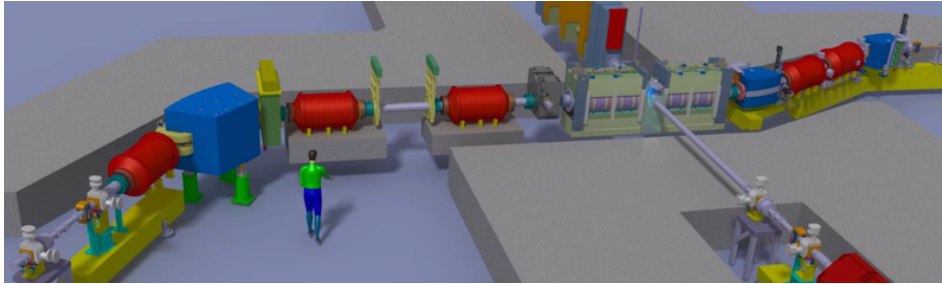


HIMB Physics Case Workshop

Tuesday 6 April 2021 - Friday 9 April 2021

Zoom



Book of Abstracts

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Mu3e Phase II - Design and Resolution Studies

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Session 1 / 2

Mu3e Phase II - Background Studies and High Rates

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Session 1 / 3

muCool 03

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Topic:

Abstract Type:

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muSR I 04: Future of muSR with HIMB –New techniques and new opportunities

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Topic:

Abstract Type:

Session 1 / 5

1A Mu3e Parallel

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Google doc for discussion:

<https://docs.google.com/document/d/15KdyNW3j4UO73czCDi5XVqLFbcTy5m7lzf0mDkjKTY/edit?usp=sharing>

Topic:

Abstract Type:

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1B muCool Parallel

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Topic:

Abstract Type:

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1C muSR I Parallel

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Topic:

Abstract Type:

Session 2 / 8

MEG General introduction

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Session 2 / 9

MEG with Conversion Photon Spectrometer

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Topic:

Abstract Type:

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moments 07

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Topic:

Abstract Type:

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muSR II 08: High Intensity Muons for superconductors, nano-magnets and quantum entangled states

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Topic:

Abstract Type:

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2A MEG Parallel

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Topic:

Abstract Type:

Session 2 / 13

2B moments Parallel

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- “Theory view on lepton moments, (non)-universality and CPX” by G. Hiller 15’
- discussion with possible short presentations
- “J-PARC g-2/EDM experiment”, by T. Mibe 15’
- discussion with possible short presentations

Topic:

Abstract Type:

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2C muSR II Parallel

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Topic:

Abstract Type:

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muSR III 09: Using hydrostatic pressure and uniaxial strain to uncover, control and manipulate novel phases in quantum materials

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Topic:

Abstract Type:

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Next generation Muonium experiments and the impact of HiMB

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Topic:

Abstract Type:

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Pool of further ideas

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Topic:

Abstract Type:

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3B muonium Parallel

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Topic:

Abstract Type:

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3A muSR III parallel

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Topic:

Abstract Type:

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3C pool Parallel

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Topic:

Abstract Type:

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Update cases 01-06

15' each

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Update cases 07-10 & pool

15' each

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Status of HIMB

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Fast Monolithic Pixel Detectors

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Session 2 / 28

MEG Tracking: Gaseous Detectors

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Session 2 / 29

MEG Tracking: Silicon Detectors

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Welcome

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