

Spokesman's introduction

Contents

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EMITTANCE PAPER UPDATE

MAUS: The MICE Analysis User Software

R Asfandiyarov, R Bayes, V Blackmore, M Bogomilov,
D Colling, AJ Dobbs, F Drielsma, M Drews, M Ellis,
M Fedorov, P Franchini, R Gardener, JR Greis, PM Hanlet,
C Heidt, C Hunt, G Kafka, Y Karadzhov, A Kurup, P Kyberd,
M Littlefield, A Liu, KL Long, D Maletic, J Martyniak,
S Middleton, T Mohayai, JC Nugent, E Overton, V Pec,
CE Pidcott, D Rajaram, M Rayner, CT Rogers, M Savic,
I Taylor, YT Torun, CD Tunnell, MA Uchida, V Verguilov,
K Walaron, M Winter, S Wilbur

November 2018

Submitted for publication in The Journal of Instrumentation

MAUS paper:

- DR has produced the final version for submission
- RAL-P
- Submission to arXiv and JINST underway

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PAPERS & NEXT STEPS IN ANALYSIS

Papers

Title	Contact	06-Dec-18		v12		Comment Dec-18
		Target date		Final	Preliminary	
		Final	Preliminary			
Direct measurement of emittance using the MICE scintillating-fibre tracker The MICE Analysis and User Software framework Phase-space density/emittance evolution; rapid communication	V. Blackmore D. Rajaram C. Rogers	Jun18 CM51 Jun18 CM51 Jun18 CM51			May18 w/s Apr18 w/s	Submitted to EU J C RAP-P produced; submission to arXiv & JINST in progress Second referees' meeting 30Nov18
Measurement of multiple Coulomb scattering of muons in lithium hydride Performance of the MICE diagnostic systems Beam-based alignment	J. Nugent S. Wylbur/P. Franchini C. Hunt	Jun18 CM51?			Jun-18 Jun-18	Unfolding issues; awaits return of JN from Japan First full draft CM52 (12Oct18)
Muon Ionization Cooling Experiment (h/w) Phase-space density/emittance evolution review paper	C. Whyte/P. Franchini C. Hunt				Jun-18	C. Whyte pushing for draft
Phase-space density/KDE/6D-emittance evolution Measurement of multiple Coulomb scattering of muons in LH2 Field-on measurement of multiple Coulomb scattering	T. Mohayai J. Nugent A. Young				Jun-18	Thesis published on initial analysis Awaits completion of LiH paper Initiated

- **Spotlight now on:**
 - **First cooling demonstration paper**
 - **LiH scattering paper**
 - **Long emittance paper**
 - **Emittance exchange paper**
 - **LH2 scattering paper**
 - **Other papers noted on previous slide**

Fixed points in analysis work

- Analysis w/s:
 - 28Nov18; Sheffield