

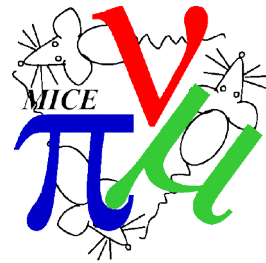


Introduction



C. Rogers, ISIS Intense Beams Group
Rutherford Appleton Laboratory

Reminder – Publication plan



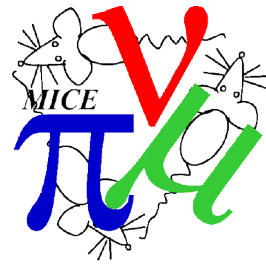
Title	Contact	08-Nov-18		v11	Comment Oct-18
		Final	Preliminary		
Direct measurement of emittance using the MICE scintillating-fibre tracker	V. Blackmore	Jun18 CM51			Final draft to collaboration NOW! Published in JINST Draft circulated; final draft almost ready for submission First referees meeting 03Oct18
The MICE liquid-hydrogen absorber	C. Whyte/J. Boehm	Jun-18	Apr18 w/s		
The MICE Analysis and User Software framework	D. Rajaram	Jun18 CM51	May18 w/s		
Phase-space density/ emittance evolution; rapid communication	C. Rogers	Jun18 CM51	Apr18 w/s		
Measurement of multiple Coulomb scattering of muons in lithium hydride	J. Nugent	Jun18 CM51?			Alignment and unfolding issues First full draft CM52 (12Oct18)
Performance of the MICE diagnostic systems	S. Wylbur/P. Franchini		Jun-18		
Beam-based alignment	C. Hunt		Jun-18		
Muon Ionization Cooling Experiment (h/w)	C. Whyte/P. Franchini		Jun-18		C. Whyte pushing for draft
Phase-space density/ emittance evolution review paper	C. Hunt				
Phase-space density/ KDE/ 6D-emittance evolution	T. Mohayai		Jun-18		Thesis published on initial analysis
Measurement of multiple Coulomb scattering of muons in LH2	J. Nugent				Awaits completion of LiH paper
Field-on measurement of multiple Coulomb scattering	A. Young				Initiated



Emittance Measurement Paper



Emittance measurement paper



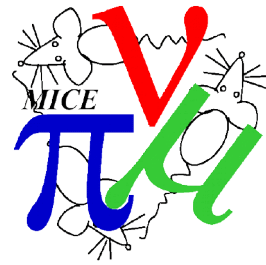
- Submitted to journal



Emittance Evolution Paper



Emittance evolution paper



Second referees meeting on Friday

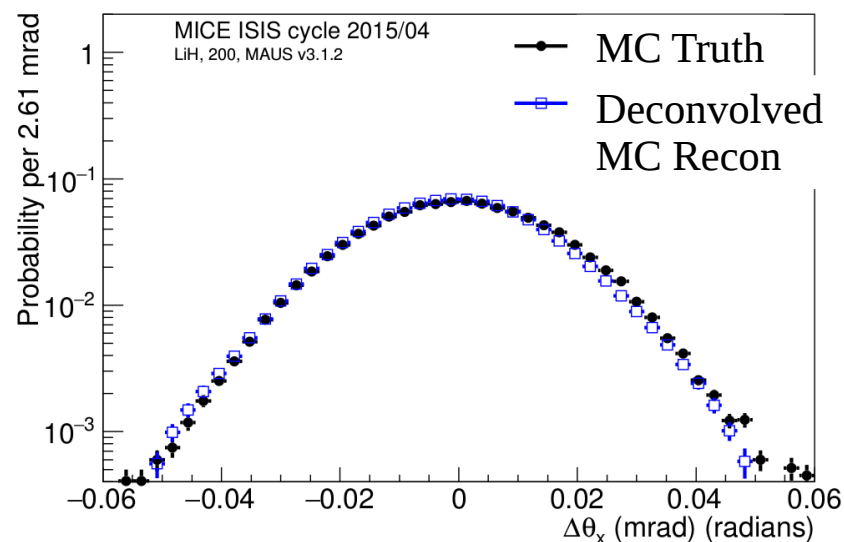
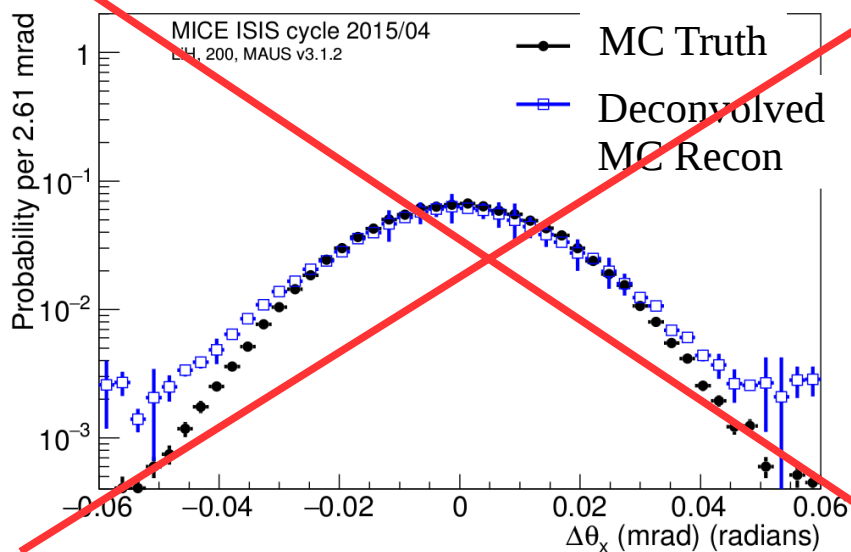
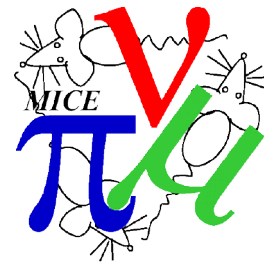
- Now using modified TOF-tracker reconstruction
- Additional systematic errors e.g. absorber thickness



Scattering Paper



Radius at Diffuser - NEW



Resolving issues in MC deconvolution

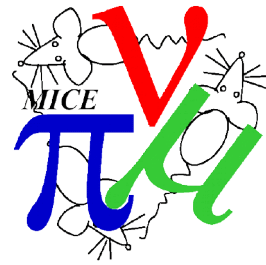
- Understand ~ 2 mrad systematic, asymmetric shift
 - i.e. blue points don't line up with black points
- May assign a systematic error instead



System Performance Paper



Radius at Diffuser - NEW



- Still missing tracker section
- Still missing energy loss measurement
- Even once everything is assembled, we will need a second pass
- Optical alignment will not be in the paper

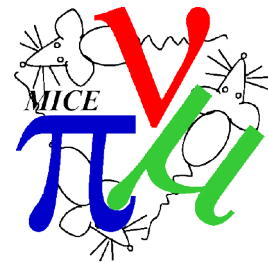


Looking Forwards



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Other Papers - Measurements



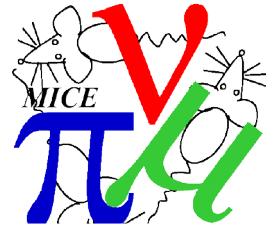
Scattering
In LH2

Field on
Scattering

6D
Emittance
Evolution

Detailed
Emittance
Evolution

Comments



- We have a **great data set**
- We have a **great analysis team**
- There are **great opportunities**
- But **time** is a growing issue

Now is the time to make it happen!