

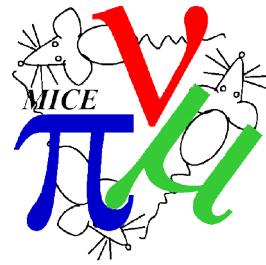


From Analyses To Papers



C. Rogers, ISIS Intense Beams Group
Rutherford Appleton Laboratory

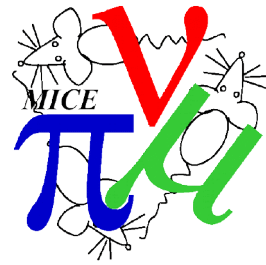
Reminder – Publication plan



Paper	Contact	Comments/Aims
Multiple Coulomb Scattering in lithium hydride	John Nugent	Now on best effort basis
Performance of the MICE diagnostic systems	Paolo Franchini	KL comments received – awaiting new draft
Phase space evolution in flip mode	Paul Jurj	Full analysis chain in place
Phase space evolution in solenoid mode	Tom Lord	Looking at low pt hole
Phase space evolution with the wedge	Craig Brown	Understand effects of density estimators
Multiple coulomb scattering in liquid hydrogen	Gavriil Ch	Deal with alignment issues; move to convolution analysis
Multiple coulomb scattering with fields on	Alan Young	Deal with alignment issues; move to convolution analysis

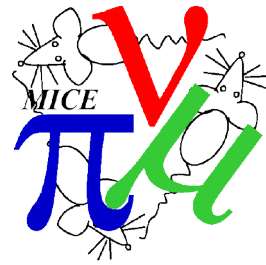


System Performance Paper



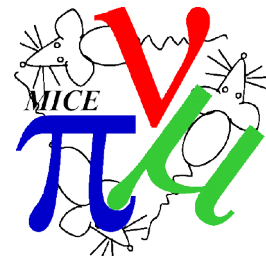
- Referees meeting last week
- Useful comments
- Hope to address ASAP
- Another meeting planned for Wednesday

Scattering analysis



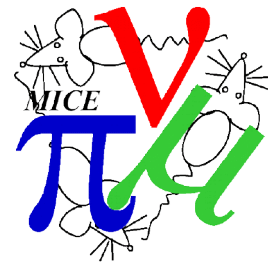
- LiH scattering held up by trivial bugs
 - No additional support to help John Nugent
 - John is working on “best effort” basis
- LH2 scattering
 - Validation of detector performance (MC vs data)
 - Preparing for PID routines

Scattering analysis



	LiH field-on	LH2 Field-off	Field-on	
Beam selection	Green	Green	Green	
TOF Momentum Reconstruction		Red	Red	
PID				
Convolution analysis				
Deconvolution analysis				
Bias due to inefficiency/geometrical acceptance				
Validation/analysis of all data sets and MC				
Systematic uncertainty analysis	Green	Red	Red	
Time-of-Flight and Momentum				
Positional Alignment of trackers				
Fiducial selection				
TOF uncertainty				
Rotational alignment of trackers				
LH2 curvature				Grey
Pion Contamination				Green
Headline plots finalised				
MICE Note written	Yellow	Red	Red	
Draft Paper written	Red			
Draft Paper through internal review	Red			
Draft Paper through journal review (publication)				

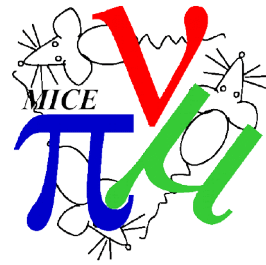
Emittance analyses



	Solenoid emittance evolution	Flip-mode emittance evolution	6D emittance evolution
Beam selection			
Beam resampling			
Amplitude/emittance/density calculation			
Bias due to resolution/inefficiency (and correction)			
Validation/analysis of all data sets			
Reconstruction uncertainty analysis			
Tracker density			
Tracker alignment			
Tracker field			
TOF uncertainty			
Model uncertainty analysis			
Beam alignment			
Fields (SS and FC)			
Absorber			
Headline plots finalised			
MICE Note written			
Draft Paper written			
Draft Paper through internal review			
Draft Paper through journal review (publication)			



Conferences



- Neutrino 2020
 - Register
 - Posters ready in 2 weeks time
 - New plots at VC in 2 weeks time
- ICHEP 2020
 - New plots at VC in 2 weeks time
 - Submissions ready by July 15th