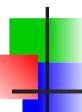
From Analyses To Papers



C. Rogers, ISIS Intense Beams Group Rutherford Appleton Laboratory



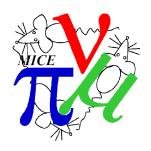
Reminder - Publication plan



Paper	Contact
Multiple Coulomb Scattering in lithium hydride	John Nugent
Performance of the MICE diagnostic systems	Paolo Franchini
Phase space evolution in flip mode Phase space evolution in solenoid mode Phase space evolution with the wedge Multiple coulomb scattering in liquid hydrogen Multiple coulomb scattering with fields on	Paul Jurj Tom Lord Craig Brown Gavriil Ch Alan Young

- System performance paper
 - Needs another read through and cross-checking the wording
 - Slow progress

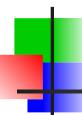
Scattering analysis



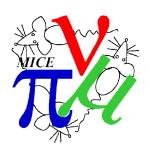
- LiH scattering
 - Best effort basis
 - Quite some progress over the summer 4 iterations
 - Another referee's meeting
 - Systematic effect in TOF01 selection due to Bethe Bloch Curve
 - Momentum offset between empty and full
 - Discussion on systematic effects in momentum measurement
 - e.g. comparison TOF01 vs TOF12
 - e.g. comparison MC vs data
 - Discussion of acceptance and transmission effects
- 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			
TOF Momentum Reconstruction			
PID			
Convolution analysis			
Deconvolution analysis			
Bias due to inefficiency/geometrical acceptance			
Validation/analysis of all data sets and MC			
Systematic uncertainty analysis			
Time-of-Flight and Momentum			
Positional Alignment of trackers			
Fiducial selection			
TOF uncertainty			
Rotational alignment of trackers			
LH2 curvature			
Pion Contamination			
Headline plots finalised			
MICE Note written			
Draft Paper written			
Draft Paper through internal review			
Draft Paper through journal review (publication)			



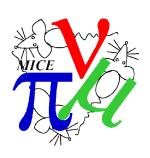
Emittance analyses



- Flip mode
 - MC vs data now looks much better
 - Looking at angular momentum analysis
- Solenoid mode
 - Angular momentum studies ongoing
- Wedge
 - Looking at sources of systematic uncertainty in tracker reconstruction

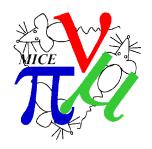


Emittance analyses



	Solenoid emittance evolution	Flip-mode emittance evolution	6D emittance evolution
Beam selection			
Beam resampling			
Amplitude/emittance/density calculation			
Angular momentum 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			

Moving to papers



- Need to kick off refereeing process
 - Work up technical notes
 - Build referee committees
- Working still to a very challenging time line
 - Would be good to hear from the analysts what jobs do they have left to do?