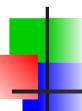
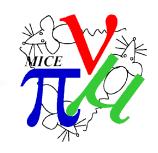
From Analyses To Papers



C. Rogers, ISIS Intense Beams Group Rutherford Appleton Laboratory



Reminder - Publication plan

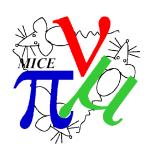


Paper	Contact
Multiple Coulomb Scattering in lithium hydride	John Nugent
Performance of the MICE diagnostic systems	Paolo Franchini
Phase space evolution in flip mode Phase space evolution in solenoid mode Phase space evolution with the wedge Multiple coulomb scattering in liquid hydrogen Multiple coulomb 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
 - Stuck for many months



Scattering analysis



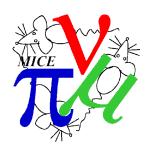
- LiH scattering
 - Best effort basis
 - Quite some progress over the summer 4 iterations
 - Next referee's meeting before christmas
- LH2 scattering
 - Validation of detector performance (MC vs data)
 - Preparing for PID routines

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)			



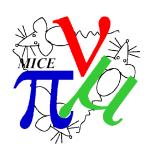
Emittance analyses



- Flip mode
 - MC vs data now looks much better
 - Some tuning
- Solenoid mode
 - Angular momentum studies ongoing
- Wedge
 - Struggling with pz resolution
 - Makes analysis challenging
- Students start writing up in January
 - Timeline is very challenging



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)			