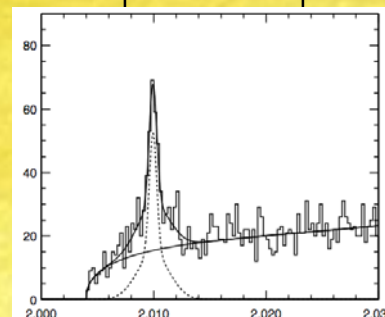


Measurement of D^0 decays to
 $D^0 \rightarrow K_L^0 \pi^0$ and $D^0 \rightarrow K_S^0 \pi^0$

Charm meeting status report,
26 April 2007

Manmohan Dash
Virginia Tech

Modes/signals	Data 32/fb	Ntuple /fit	32/fb MC ccbar	non ccbar	Nt/fit	100/fb MC ccbar skimmed
Ks, KI (ECL, KLM) signal & calibration	yes	yes	yes	yes	yes	
Pseudo KI sample	x	x	x	x	x	
Contamination , several known modes			yes	yes	yes	
Unknown contamination, checked generated info for Ks calibration			3.7%			



Unknown contaminations, 3.7% in Ks calibration mode

Checked 100 events within signal mass window for Ks calibration mode

1. 33% signal but from pi0 and gamma tag
2. Some new peaking modes
3. Rest combinatorics
4. Guess same sources for KI ECL type (36% unknown bump)

=>More MC truth coding and reanalysis of MC

=>systematics from fit bias, unknown peakings

=>not clear why only in calibration mode!

=>how this will be accounted in data?

Data/MC difference

Analysis of MC and data for Pseudo KI sample needs to be done, After BAM

Belle Note with analysis methods ready

1. Detailed status can be given at coming BAM
2. How exactly systematics will be evaluated can be formulated by having all variables in the analysis before more analysis and belle note can be updated and released to the collaboration immediately after BAM
3. Belle note then can be updated again with result from MC and data at 32/fb with systematics

Conference/Journal

Data/MC can be updated to reasonable size and results updated