Contribution ID: 11 Type: not specified

## Mixing/coherence in D mesons

Wednesday, 20 May 2015 11:10 (20 minutes)

We report the measurement of the D0-D0bar mixing parameter,  $y_{CP}$  based on the sample taken at the DDbar mass threshold. Based on the events where we reconstruct one D decays to CP eigenstates while the other D decays semi-leptonially, we obtain  $y_{CP} = (-2.0+-1.3+-0.7)\%$ . We also present results for model independent measurement of the strong phase difference between D0 and D0bar -> K0 pi+ pi-, through a binned dalitz analysis. These results represent a significant improvement in a previously statistically limited measurement, which will then allow for increased precision in the measurement of unitarity triangle angle gamma/phi3 using the decay B+- -> D (-> Ks pi+ pi-) K+- through the GGSZ method.

Primary author: Dr LYU, Xiao-Rui (UCAS)

Presenter: ONUR, Albayrak (Carnegie Mellon University)

Session Classification: Parallel Session 3