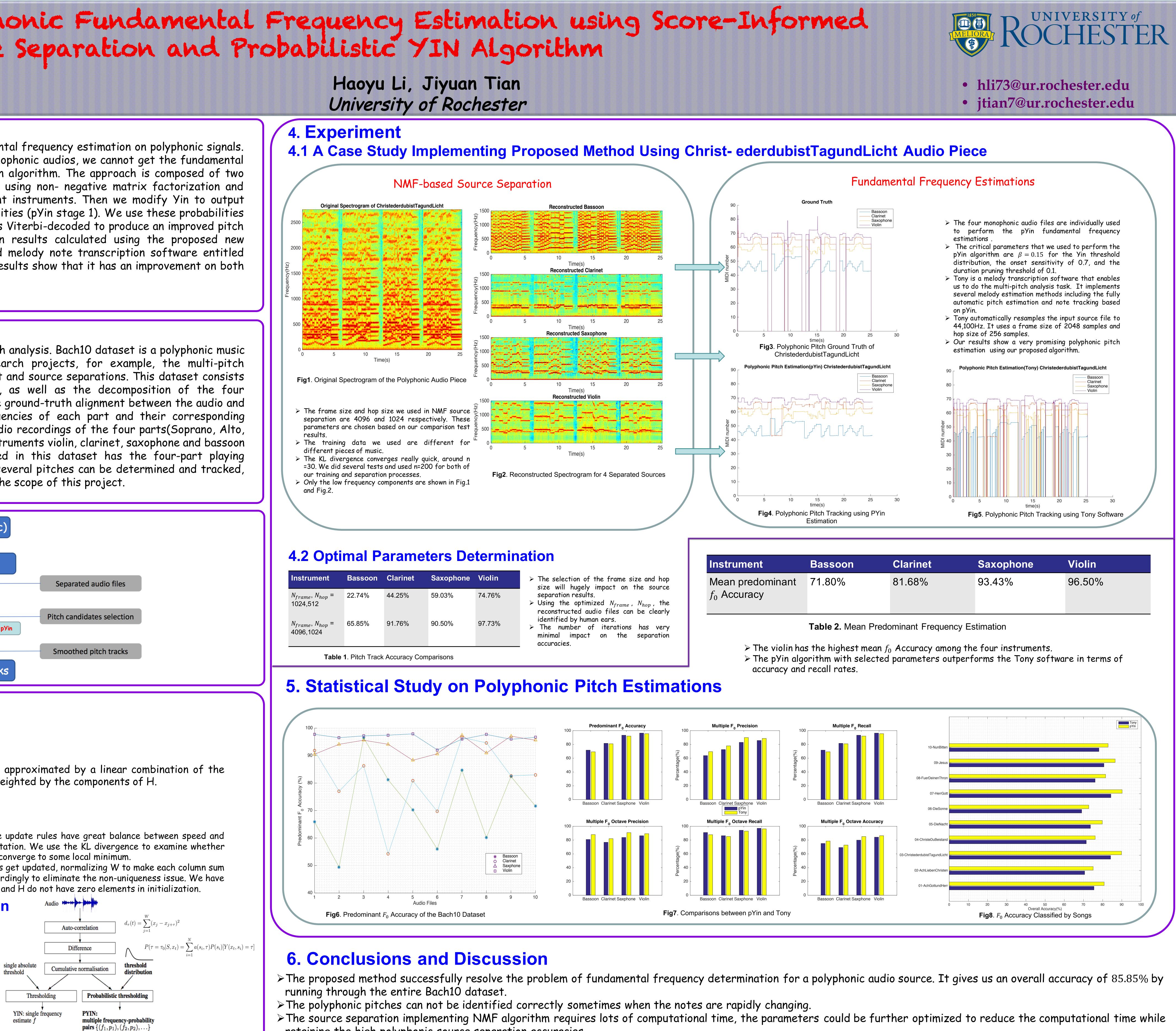


	- 10		
Polyphon	ic Pitch ⁻	Track Estimation	

the pitch space.

- fundamental frequency candidates with their corresponding
- probabilities. > After stage one is performed, a HMM-based pitch tracking is used to choose one pitch candidate per frame by uniformly divide



References: [1] M. Mauch and S. Dixon, pYIN: A Fundamental Frequency Estimator Using Probabilistic Threshold Distributions, in Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2014), 2014. [2] Ewert, Sebastian, and Meinard Mller. "Using score-informed constraints for NMF-based source separation. "Acoustics, Speech and Signal Processing (ICASSP), 2012 IEEE International Conference on. IEEE, 2012. [3] A. P. Klapuri, Multiple fundamental frequency estimation based on harmonicity and spectral smoothness, IEEE Transactions on Speech and Audio Processing, vol. 11, no. 6, pp. 804 816, 2003.

retaining the high polyphonic source separation accuracies. > The low pitch source(i.e. Bassoon) from a polyphonic audio piece has lower accuracy comparing to other sources. Improving that can be the future research direction.

Bassoon	Clarinet	Saxophone	Violin
1.80%	81.68%	93.43%	96.50%