1117-16-529   **Alimjon Eshmatov*** (`aeshmat@math.cornell.edu`), Ithaca, NY 14850, **Xiaojun Chen** (`xjchen@scu.edu.cn`), Chengdu, Sichuan 610064, Peoples Rep of China, **Farkhod Eshmatov** (`olimjon55@hotmail.com`), Chengdu, Sichuan 610064, Peoples Rep of China, and **Song Yang** (`syang.math@gmail.com`), Chengdu, Sichuan 610064, Peoples Rep of China. *Non-commutative Poisson structures on Calabi-Yau algebras.*

The notion of Calabi-Yau(CY) algebras is introduced by V. Ginzburg and may be viewed as non-commutative generalization of affine CY varieties.We will see that that under some mild conditions, on each algebra CY algebra A, there is a derived non-commutative Poisson structure which induces a graded Lie algebra structure on the cyclic homology of A. This is joint work with X. Chen, F. Eshmatov and S. Yang. (Received January 19, 2016)