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**Zongzhu Lin\*** (zlin@math.ksu.edu), Division of Mathematical Sciences (1025 N), National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230, and **Yi Fang**. *Quivers with anti-involutions*. Preliminary report.

In the talk I will discuss some Lie theoretic properties of quivers with anti-involutions as well as its application to computing DNS sequences in Biology.

In Lie theory, the representations of quivers with anti-involution is related to computing the adjoint orbits of graded Lie algebras or classical types. In computational biology the Chinese postman type of questions will provide an algorithm to build a minimal DNA sequences that possess all genes or given length. (Received February 10, 2009)