1100-13-14   **Kai Fong Ernest Chong*** (`kc343@cornell.edu`), Department of Mathematics, 310 Malott Hall, Cornell University, Ithaca, NY 14853. *An application of liaison theory to the Eisenbud-Green-Harris conjecture.*

In this talk, we discuss how liaison theory can be used to prove the Eisenbud-Green-Harris conjecture for a certain subclass of homogeneous ideals in the linkage class of a complete intersection ideal. Our emphasis will be on explaining the underlying motivation for identifying this particular subclass of ideals. In the case of three variables, we show that the conjecture is true for Gorenstein ideals. (Received December 12, 2013)