1126-05-286   **Hanmeng Zhan*** (`h3zhan@uwaterloo.ca`), Combinatorics and Opimization, University of Waterloo, Waterloo, ON N2L3G1, Canada. *From covers to tight frames.*

An equiangular tight frame is a set of equiangular lines that meets the Welch bound. In this talk, we give an overview of the relation between equiangular tight frames (ETF) and distance-regular antipodal covers of the complete graphs (DRACKN). We show that for each abelian DRACKN, we can construct two complex EFTs in different dimensions. This is joint work with Gabriel Coutinho, Chris Godsil and Hamed Shirazi. (Received January 16, 2017)