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Shaoming Guo, Changkeun Oh, Joris Roos* (jroos@math.wisc.edu), **Po-Lam Yung** and **Pavel Zorin-Kranich**. *Decoupling for two quadratic forms in three variables: a complete characterization.*

The talk will be about a recent work, where we prove decoupling inequalities for all degenerate surfaces of codimension two in \mathbb{R}^5 given by two quadratic forms in three variables. Together with previous work by Demeter, Guo, and Shi in the non-degenerate case, this provides a classification of decoupling inequalities for pairs of quadratic forms in three variables. (Received January 20, 2020)