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Persi Diaconis*, Department of Statistics, Sequoia Hall, Stanford University, 390 Serra Mall,
Stanford, CA 94305-4065. *Applying Applied Math to Algebra.*

Sometimes, the pendulum swings in the other direction: discoveries by applied mathematicians contribute to algebra. I will illustrate with examples from the FFT, illuminating the representation of the Heisenberg group. This is joint work with Dan Bump, Sourav Chatterjee, Angela Hicks, Eric Marberd, and Zhiwei Yun. (Received August 27, 2014)