

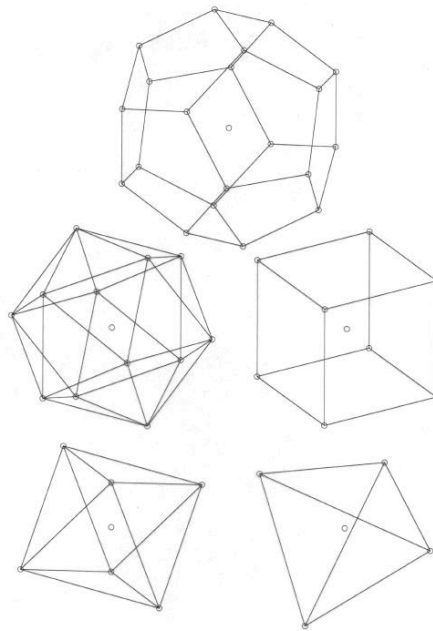
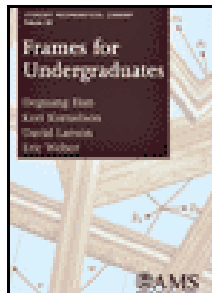
# Piney Woods Lecture Series

## Loosen Up: Tight Frames in $\mathbb{R}^n$

Dr. Keri Korneson  
Grinnell College

February 11, 2008  
2 - 3 PM  
LDB 214

<http://www.math.umd.edu/~jjb/platonic-solids.jpg>



**Abstract:** Tight frames in  $\mathbb{R}^n$  are spanning collections of vectors which preserve some of the nice properties of orthonormal bases, but also add in some flexibility of structure that can be valuable in applications. We describe a way to find and characterize tight frames in two dimensions.

**Biography:** Keri Korneson is an Assistant Professor at Grinnell College, in Grinnell, Iowa. She received her BA from the University of Colorado at Boulder, then worked in the aerospace industry before returning to CU for her PhD in mathematics. She was a VIGRE post-doctoral fellow at Texas A&M University before moving to Grinnell. Her research interests include wavelets, frames, and iterated function systems. She recently co-authored a book about frames published by the American Mathematical Society.