1024-37-249 **Brian F Martensen*** (`martensen@mnsu.edu`), Minnesota State University, 273 Wissink Hall, Mankato, MN 56001. *Mixing properties of substitutive sequences and proximality.*

This talk will focus on the correspondence between various forms of mixing and the density of the proximal tilings in a substitutive system. We will also discuss the role the eigenvalues of the transistion matrix play in determining the structure and spacing of proximal tiliings and end with several open problems. (Received January 09, 2007)