

1035-N1-1096 **Pedro Teixeira*** (pteixeir@knox.edu), Mathematics Department, Knox College, 2 E South St,
Galesburg, IL 61401. *Fractal Patchwork Quilts*. Preliminary report.

In this talk I describe some aspects of the theory of “fractal patchwork quilts” that Monsky and I have developed in connection to our work in commutative algebra. We look at some beautiful examples of such quilts, investigate their self-similarity properties, and see how they arise from considerations about algebraic objects such as polynomials and syzygies. These fractal patchwork quilts have allowed us to obtain some interesting results, and in their beauty and strangeness have an independent interest. (Received September 18, 2007)