

Meeting: 1003, Atlanta, Georgia, SS 21A, AMS Special Session on Mathematics and Mathematics Education in Fiber Arts

1003-37-773 **D. Jacob Wildstrom*** (dwildstr@math.ucsd.edu), 9500 Gilman Drive, La Jolla, CA 92093-0112. *The Sierpinski Variations: Self-Similar Crochet*. Preliminary report.

Traditional crochet methods such as filet are easily modified to become an ideal medium for the presentation of one-dimensional cellular automata and self-similar geometric figures. This talk will explore both the applications and limitations of this method, and discuss other geometric models for crochet and their possibilities to represent self-similar patterns, as well as the underlying design philosophy which motivates this approach. (Received September 29, 2004)