

1125-AA-901 **Kenneth C Millett*** (millett@math.ucsb.edu), Department of Mathematics, UCSB, Santa Barbara, CA 93106. *Entangled Proteins: Knotting and Linking*.

Knots, slipknots, and linked structures are found in quite a few interesting proteins. They exhibit important structural features that correlate with functional features of these proteins. In this lecture, I will describe how one can recognize their presence and measure the extent of their influence on the protein via a historically based description of the development and evolution of the fundamental concepts. I will focus on the study of paradigm examples that inspire important research. Our objective is to shine new light these topics that are the focus of current research effort. (Received September 13, 2016)