

1139-92-77

Alex Kasman* (kasmana@cofc.edu), 66 George Street, Department of Mathematics, Charleston, SC 29424. *On the Duplexing of DNA's Genetic and Geometric Codes.*

This talk will mathematically investigate the relationship between two naturally arising “codes”. One is the famous genetic code which associates protein chains to DNA sequences. The other, in which the three-dimensional geometry of a DNA molecule is determined by its DNA sequence, was only discovered much more recently. Two different methods will be used to determine how well-duplexed these codes are with each other. (Received January 29, 2018)