

1125-94-1037 **Carolyn Mayer*** (cmayer@huskers.unl.edu) and **Christine A. Kelley**. *Fountain Codes on Partial Erasure Channels*. Preliminary report.

Fountain codes are a class of erasure codes in which encoding symbols are generated and transmitted until enough symbols are received to recover the original message. Since the number of encoding symbols is unlimited, fountain codes are rateless. Moreover, the structure of the dynamically-constructed encoding graph greatly affects a fountain code's performance. Recently, partial erasure channels have been introduced to model applications in which some information may remain after an erasure event. In this talk, we will discuss fountain codes on partial erasure channels. (Received September 14, 2016)