

1145-05-1806

Carolyn Mayer* (cdmayer@wpi.edu) and **William J. Martin.** *A Graph Connectivity Problem Based on Low-degree Luby Transform Codes.* Preliminary report.

Luby Transform (LT) codes are a class of rateless erasure codes in which information is encoded by constructing a bipartite graph dynamically according to a specified degree distribution. The efficiency of an LT code varies with the design of the degree distribution. We investigate a graph connectivity problem related to the decodability of an LT code with a degree distribution restricted to low degrees. (Received September 24, 2018)