1146-05-55 **Seth Selken*** (sselken@g.clemson.edu). *Distributed storage systems: a graph-theoretic perspective.* Preliminary report.

2.5 quintillion bytes. That's how much data the world generates every minute. With such vast quantities of data being created, it's no wonder that billions (if not trillions) of dollars are being spent to store and sift through this data. The problems of storing, preserving, and protecting this data give rise to interesting mathematical problems in almost every mathematical discipline, and in this talk, we focus on how we can store data safely, efficiently, and effectively in storage systems modeled by graphs. (Received January 04, 2019)