

1154-05-1753 **Iwan Duursma*** (duursma@illinois.edu), **Xiao Li** and **Hsin-Po Wang**. *Graph based codes for distributed storage.*

We use Johnson graphs and Cayley graphs to construct regenerating codes for use in distributed storage. Such codes guarantee that (1) data stored on n servers can be downloaded from any chosen k -subset of servers and (2) any failed server can be reconstructed using small amounts of repair data from any chosen d -subset of the remaining servers. (Received September 16, 2019)