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**Felice Manganiello\*** (manganm@clemons.edu), **Fiona Knoll**, **Gretchen Matthews** and **Shuhong Gao**. *Distributed storage systems from regular graphs*.

In this talk we look at distributed storage systems (DSSs) from a graph theoretic perspective. We focus on DSS which are constructed by means of the path decomposition of a 3-regular graph into  $P_4$  paths. The latter represents the disks of the DSS and the edges of the graph, the blocks. We deduce the properties of the DSS and show their optimality by studying its graph representation. (Received August 25, 2016)