

1154-05-1759

**Tara Fife\*** (tfife2@lsu.edu), Mathematics Department, Louisiana State University, Baton Rouge, LA 70803-4918, and **James Oxley**. *Laminar Matroids and their Generalizations*.

Matroids were introduced to provide an abstract generalization of the notion of linear dependence. This talk begins by introducing matroids, nested matroids, and laminar matroids. One characterization of laminar matroids is that, for all circuits  $C_1 \cap C_2 \neq \emptyset$ , either  $C_1$  is in the closure of  $C_2$ , or  $C_2$  is in the closure of  $C_1$ . We use this characterization to define two infinite families of generalized laminar matroids and give structural results for these classes. (Received September 16, 2019)