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**Saugata Basu, Antonio Lerario, Erik Lundberg\*** (elundber@fau.edu) and **Chris Peterson**. *Random matrices arising in the study of random fields*.

This talk will discuss some problems in random fields, such as studying the solutions to a random system of equations (e.g., the critical points of a random potential energy landscape) as well as recent investigations concerning the solutions to problems in enumerative geometry (e.g., the number of lines on a random cubic surface). We will emphasize connections to random matrix theory, including some new open problems that are simple to state. (Received February 11, 2018)