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J. M. S. Simoes-Pereira* (siper@mat.uc.pt), Departamento de Matemática, Universidade de Coimbra, PT3001-454 Coimbra, Portugal. *Determinants and permanents: Extreme values they reach*. Preliminary report.

We discuss several aspects related with the problem of finding the maximum and minimum values attained by determinants and permanents of $n \times n$ matrices given their real positive entries. Relevant seems to be the existence of configurations where these extreme values are attained or the non-existence of such configurations which means the need for algorithms to solve these problems. (Received March 14, 2017)