

1116-52-1047

**Florian Frick\*** (ff238@cornell.edu). *Counterexamples to the topological Tverberg conjecture.*

We will combine recent work of Mabillard and Wagner with a “cheap trick” (joint work with P. Blagojević and G. M. Ziegler) to obtain counterexamples to the topological Tverberg conjecture due to Bárány from 1976. The conjecture states that any continuous map of a simplex of dimension  $(r - 1)(d + 1)$  to Euclidean  $d$ -space maps points from  $r$  disjoint faces of the simplex to the same point. This conjecture is true precisely for  $r$  a power of a prime. (Received September 16, 2015)