

MEANS ON TOPOLOGICAL SPACES

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Abstract: An n -mean on a set X (group or topological space) is a function $F : X^n \rightarrow X$ satisfying

- 1) “Continuity”
- 2) Unanimity
- 3) Anonymity

I will discuss what these three conditions mean when X is a group and when X is a topological space. We will then find all groups admitting n -means. The big result will be that if a CW-complex admits n -means for all n , then we can say some interesting things about the space. The talk will be based upon the work of B. Eckmann, C. Chichilnisky and S. Weinberger.