

# Tverberg's theorem for cell complexes

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The topological Tverberg theorem states that given any continuous map  $f: \Delta^{(d+1)(r-1)} \rightarrow \mathbb{R}^d$ , there are pairwise disjoint faces  $\sigma_1, \dots, \sigma_r$  of  $\Delta^{(d+1)(r-1)}$  such that  $f(\sigma_1) \cap \dots \cap f(\sigma_r) \neq \emptyset$  whenever  $r$  is a prime power. We generalize this theorem to a continuous map from a certain CW complex into a Euclidean space.

This is joint work with S. Hasui, M. Takeda and M. Tsutaya.