

Contribution ID: 10

Type: not specified

The cell dispensibility problem for spaces and manifolds

Wednesday 29 June 2022 09:30 (1 hour)

We consider the following problem: when is a CW-space X homotopy equivalent to a CW-complex without j-cells for k < j < r?

We show that this is equivalent to some cohomology condition together with the vanishing of an algebraic Ktheory "cell-dispensability obstruction", analogous but not equal to the Wall finiteness obstruction. A similar theory holds for closed manifolds, replacing cells" byhandles".

Presenter: HAUSMANN, Jean-Claude