On ϵ-mappings of non triangulable manifolds

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Abstract

We shall discuss the following two questions:

1. Can every nontriangulable closed n-manifold be ϵ-mapped onto a finite n-polyhedron so that this map induces a homotopy equivalence?

2. Is it true that no nontriangulable manifold can be mapped onto triangulable manifold?

M.H. Freedman (in dim 4) and C. Manolescu (in dimensions > 4) constructed nontriangulable nonpolyhedral closed manifolds. We shall investigate ϵ-mappings of such manifolds.