Edward Tymchatyn* (tymchat@math.usask.ca), Wojciech Debski, Kazuhiro Kawamura and Murat Tuncali. Inverse systems with simplicial bonding maps and cell structures.

For a topologically complete space $X$ and a sufficiently large family of normal, closed covers of $X$, we give a construction of an inverse system of simplicial complexes with simplicial bonding maps such that the inverse limit is homotopy equivalent to $X$. A connection with cell structures (i.e. certain inverse systems of graphs) is discussed. (Received September 10, 2019)