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Products of CW complexes

CW complexes are considered "nice" spaces for the purposes of algebraic topology. However, the product (even just pairwise) of CW complexes, endowed with the product topology, is not necessarily a CW complex. I will start by reviewing the definitions and what was previously known, some of it under set-theoretic assumptions such as CH. I will then present a complete characterisation, valid in ZFC, of when the product of CW complexes is a CW complex.