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Igor Pak*, Department of Mathematics, UCLA, Los Angeles, CA 90095. *Realization of polyhedral complexes.*

I will discuss the problems of realization of polyhedral complexes in 3 and higher dimensions, related to generalizations of Fary, Steinitz and Tutte theorems. The irrationality phenomenon is also discussed. Joint work with Stedman Wilson. (Received September 07, 2012)