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pure simplicial complex

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Author mps (409) Entry type Definition Classification msc 55U10 Classification msc 52B99 A finite simplicial complex is pure if each facet has the same dimension. For example, any polytope is pure, but the simplicial complex

$$\{\emptyset, a, b, c, d, ab, ac, bc, cd, abc\}$$

is not pure because cd and abc are facets with different dimensions.