

Counting colored graphs representing triangulated manifolds

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Abstract: $(D + 1)$ -Edge-colored graphs represent D -dimensional triangulations, and the geometrical properties of the latter are translated into graph properties. This finds an application in high-energy physics, and more precisely in discrete quantum gravity. In this context, triangulations should be classified and counted according to their mean curvature. To address the problem, we introduce a bijection with combinatorial maps.