Equivariant classification of cohomogeneity one Alexandrov spaces in low dimension

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Abstract:

In this talk, I will give an equivariant classification of cohomogeneity one Alexandrov spaces in dimensions 5; 6 and 7. As a result, we show that all orbifolds appeared in the classification are equivariantly homeomorphic to a smooth good orbifold of cohomogeneity one. Furthermore, I will discuss a characterization of cohomogeneity one Alexandrov spaces to be topological manifolds. In particular, we prove that such spaces are homeomorphic to smooth manifolds in low dimensions. This is a joint work with Fernando Galaz-Garcia.

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