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## Noetherianity up to symmetry

Many non-Noetherian rings and topological spaces equipped with the action of a large group or monoid are in fact Noetherian up to that action. This phenomenon is responsible for several recent finiteness results in algebraic geometry and commutative algebra. I will discuss examples concerning certain infinite-dimensional toric varieties with an action of the infinite symmetric group, and concerning secant varieties of classical varieties with an action of an infinite-dimensional algebraic group.

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