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Almost finiteness and \mathcal{Z} -stability

I will introduce a notion of almost finiteness for group actions on compact spaces as an analogue of both hyperfiniteness in the measure-preserving setting and of \mathcal{Z} -stability in the C^* -algebraic setting. This generalizes Matui's concept of the same name from the zero-dimensional context and is related to dynamical comparison in the same way that \mathcal{Z} -stability is related to strict comparison in the context of the Toms-Winter conjecture. Moreover, for free minimal actions of countably infinite groups on compact metrizable spaces the property of almost finiteness implies that the crossed product is \mathcal{Z} -stable, which leads to new examples of classifiable crossed products.