

1. Is magnitude continuous with respect to the bounded Lipschitz distance on the collection of metric spaces of negative type homeomorphic to a given space? (Meckes)
2. Is there a reasonable definition of magnitude for infinite metric spaces that aren't positive definite or homogeneous? Particular cases of interest include Riemannian manifolds, and subsets of ℓ_p^n for $p, n > 2$. (Meckes)
3. Is there any geometric meaning in the poles of the meromorphic extension of the magnitude function to the complex plane? (Goffeng)
4. Are there variational formulas for the magnitude function? (Goffeng)
5. Is there a notion of "relative magnitude"? In other words, what is the magnitude of a Lipschitz function between metric spaces or a functor of enriched categories? (Goffeng)
6. Does magnitude homology for general metric spaces (or even enriched categories) satisfy Kunneth or Mayer-Vietoris theorems (Hepworth-Willerton proved these for graphs)? (Shulman)
7. (How) is the magnitude homology of an infinite metric space related to its analytic magnitude function? (Shulman)
8. What is the magnitude of the unit ball in the euclidean plane? The ball of radius R ? The ball of radius R in arbitrary even dimension? Is there a nice "compact" formula for $(1 - \Delta)^{\frac{1}{2}}$ "similar" to that of Caffarelli et al for $(-\Delta)^{\frac{1}{2}}$? (Carbery)
9. Suppose that a sequence of compact metric spaces is Gromov-Hausdorff convergent. Is it possible to calculate the magnitude homology of the limit from that of the sequence? (Gomi)
10. Is magnitude (homology) related to physics? (Gomi)
11. The definition of the magnitude of a matrix makes sense even if the matrix is not square. But almost all of the theory of magnitude to date ultimately comes from the case of square matrices. Can interesting things be done with the magnitude of matrices that are not necessarily square? (Leinster)
12. In enumerative combinatorics, the special values at roots of 1 of the q -analogue of counting function sometimes make sense (cyclic sieving phenomena). Does similar special values for magnitude function have some interesting meaning? (Yoshinaga)
13. Do two graphs which differ by a Whitney twist with adjacent gluing points have isomorphic magnitude homology? [See Hepworth-Willerton.] (Gu) -- added post-meeting.