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Obstruction for a virtual C^2 action on the circle

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Abstract:
When does a group virtually admit a faithful C^2 action on the circle? We provide an obstruction using a RAAG. Examples include all (non-virtually-free) mapping class groups, $Out(F_n)$ and Torelli groups. This answers a question by B. Farb.

This is joint work with Hyungryul Baik and Thomas Koberda.