

CMM PDE Seminar

Speaker: Sophie Aiken, University of California Santa Cruz.

Title: "Recent Progress on the Fractional Yamabe Problem"

Abstract: Let $(M^n, [\hat{g}])$ be the conformal infinity of an asymptotically hyperbolic Einstein (AHE) manifold (X^{n+1}, g^+) . We will take the scattering operator associated to the AHE filling in as the fractional conformal Laplacian. Equipped with fractional conformal Laplacians defined via the AHE manifold, we can define a fractional Yamabe problem, looking for a conformal metric of $(M^n, [\hat{g}])$ which has constant fractional scalar curvature. We will present some new developments on the fractional Yamabe problem assuming an AHE filling in.

Venue: DIM seminar room, Beauchef 851, 5th floor.

Monday, december 02nd at 12:10 pm.

Zoom: <https://uchile.zoom.us/j/96642349167?pwd=MkRVbWxzOFBUUXICTWFicW0reWZ6dz09>

For further information, see our webpage: <https://eventos.cmm.uchile.cl/pdeseminar/>

