## On the absolutely continuous spectrum of generalized indefinite strings

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Abstract. Our main result is the stability of the absolutely continuous spectrum of two model examples of strings under rather wide classes of perturbations. In particular, this enables us to prove that the absolutely continuous spectrum of the isospectral problem associated with the conservative Camassa-Holm flow in the dispersive regime is essentially supported on the interval  $[1/4, \infty)$  for the entire natural phase space. If time permits, applications to quantum graphs and 1D Hamiltonians with  $\delta$ '-interactions will be discussed as well.

The talk is based on joint work with J. Eckhardt (Loughborough, UK).

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