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*Hilbert transforms along vector fields*

We survey recent results related to the Hilbert transform along a one-variable vector field: first, that  $H_v$  is bounded on  $L^p$  for  $p > \frac{3}{2}$ , and second, that  $H_v$  is bounded on  $L^p$  for  $p > 1$  when acting on functions with frequency support in an annulus.