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Volodymyr Nekrashevych* (nekrash@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843. *Fredholm modules and spectral triples associated with hyperbolic groupoids.*

We will discuss natural Fredholm modules and spectral triples associated with pairs of mutually dual hyperbolic groupoids. Examples of hyperbolic groupoids include actions of Gromov hyperbolic groups on their boundaries, groupoids generated by expanding maps, groupoids associated with Smale spaces or Anosov flows, etc. (Received September 12, 2013)