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Benoit Pausader* (benoit.pausader@math.brown.edu). *The energy-critical Schrodinger equation in the hyperbolic space.*

We will prove that solutions to the defocusing energy-critical Schrodinger equations are global in the hyperbolic space H^3 . The relevance of the energy-critical case is that in this case, one needs to understand how to take into account the scaling limits of the equation. In particular, one needs to see how to connect solutions to the corresponding equation on a Euclidian space to solutions of the original equation which concentrate as they evolve. This is a joint work with A. Ionescu and G. Staffilani. (Received January 16, 2011)