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Volodymyr Nekrashevych* (nekrash@math.tamu.edu), College Station, TX 77843. *Hyperbolic pseudogroups.*

We will define the notion of a hyperbolic pseudogroup or groupoid and provide examples. One can define dual pseudogroup to a hyperbolic pseudogroup. We will discuss dynamical and algebraic aspects of this duality. Examples of dual hyperbolic pseudogroups include pseudogroups defined by expanding self-coverings and self-similar groups. (Received February 12, 2008)