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Differentiable groupoids and Morita Equivalence. Preliminary report.

Let G be a differentiable groupoid. This in particular means that the space of units and the space of maps are differentiable spaces and the groupoid maps are differentiable maps (in the sense of Spalleck/Mostow). We will first detail some general properties of differentiable groupoids, and then, motivated by the example of the inertia groupoid of a proper Lie groupoid, we will study their Morita equivalence classes. (Received August 15, 2013)