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Oscar Guajardo* (oscar@matcuer.unam.mx). *A classical approach to smooth supermanifolds*. Preliminary report.

We'll characterise smooth supermanifolds as smooth superalgebra bundles over a smooth manifold and prove the equivalence between this approach and the usual approach via ringed spaces. In this approach, morphisms of supermanifolds are differential operators along smooth maps between the underlying manifolds.

With this approach we begin a study of differential-geometric concepts in the \mathbb{Z}_2 -graded setting, including the de Rham cohomology groups and the curvature of superconnections. (Received May 13, 2013)