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Luchezar L. Avramov* (avramov@math.unl.edu), Department of Mathematics, University of Nebraska, Lincoln, NE 68588, **Hans-Bjørn Foxby** (foxby@math.ku.dk), Department of Mathematics, University of Copenhagen, DK-2100 Copenhagen, Denmark, and **Stephen Halperin** (shalper@deans.umd.edu), University of Maryland, College of Computer, Mathematical and, Physical Sciences, College Park, MD 20742. *Minimal resolutions over differential graded algebras.*

A notion of minimality that applies to arbitrary DG modules over a DG algebra will be introduced. For resolutions of modules or complexes, it will be compared to existing notions. Various classes of DG modules will be shown to admit semiprojective or semiinjective minimal resolutions, which are unique up to isomorphism. (Received January 25, 2010)