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Alberto Bressan* (bressan@math.psu.edu), Department of Mathematics, McAllister Building, University Park, PA 16802. *Game-theoretical models of debt management with bankruptcy risk*. Preliminary report.

A problem of optimal debt management is modeled as a non-cooperative game between a borrower and a pool of risk-neutral lenders. Since the debtor may go bankrupt, lenders charge a higher interest rate to offset the possible loss of part of their investment. Existence and properties of optimal strategies are studied, both in a deterministic and in a stochastic framework. (Received September 08, 2016)