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# On Capital Injections and Dividends with Tax in a Classical Risk Model

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## Abstract

Consider the classical risk model with dividends and capital injections. In addition to the model considered by Kulenko and Schmidli (2008), tax has to be paid for dividends. Capital injections yield tax exemptions. We calculate the value function and derive the optimal dividend strategy.

*Key words:* dividends; capital injections; tax; barrier strategy; Hamilton–Jacobi–Bellman equation

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