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CENTRE DE RECHERCHES MATHÉMATIQUES

SÉMINAIRE DE MATHÉMATIQUES ACTUARIELLES ET FINANCIÈRES

organisé par *Quantact, le Laboratoire de mathématiques actuarielles et financières* du CRM

PK-5115
201, avenue du Président-Kennedy, Montréal
Département de mathématiques, UQAM
25 septembre 2015, 14:00-15:00

Irmina Czarna
Mathematical Institute, University of Wroclaw, Poland

Exit problems for spectrally negative Levy processes with Parisian delay and a lower ultimate bankrupt barrier implementation

We will present ruin problem, where there is a Parisian delay and a lower ultimate bankrupt barrier. In this problem we will say that a risk process get ruined when it stays below zero longer than a fixed amount of time d>0 or goes below a fixed level -a (ultimate bankruptcy level). We focus on a general spectrally negative Lévy insurance risk process. For this class of processes using fluctuation theory we identify the Laplace transforms of the ruin probability, two-sided exit problems in terms of so-called q-scale functions and second-generation q-scale functions..

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