

Accepted Manuscript

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PII: S0167-6687(16)30457-7

DOI: <http://dx.doi.org/10.1016/j.insmatheco.2017.07.007>

Reference: INSUMA 2371

To appear in: *Insurance: Mathematics and Economics*

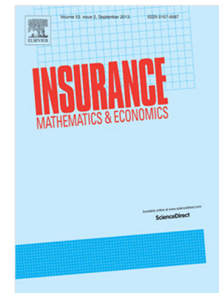
Received date: November 2016

Revised date: June 2017

Accepted date: 28 July 2017

Please cite this article as: Boratyńska, A., Robust Bayesian estimation and prediction of reserves in exponential model with quadratic variance function. *Insurance: Mathematics and Economics* (2017), <http://dx.doi.org/10.1016/j.insmatheco.2017.07.007>

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ROBUST BAYESIAN ESTIMATION AND PREDICTION OF RESERVES IN
EXPONENTIAL MODEL WITH QUADRATIC VARIANCE FUNCTION

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Abstract. The exponential families with quadratic variance function, conjugate families of priors and square loss function is applied to the prediction of claim reserves. The robustness with respect to the priors is considered. The uncertainty of the prior information is modeled by two different classes of priors. The posterior regret Γ -minimax estimators and predictors are constructed.

Keywords. loss reserves, exponential model with quadratic variance function, classes of priors, ε -contamination, posterior regret Γ -minimax estimation and prediction, mean square error, chain ladder factor

JEL Class.: C11; C13; G22

2010 Math. Subj. Class: 62F15

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