1020-62-30 **Tomasz J. Kozubowski*** (tkozubow@unr.edu), University of Nevada, Mathematics & Statistics, Mail Stop 84, Reno, NV 89557, and **Anna K. Panorska** and **Krzysztof Podgorski**. *A bivariate Levy process with negative binomial and gamma marginals.* Preliminary report.

The joint distribution of (X, N), where N is geometric and X is the sum of N i.i.d. exponential variables (independent of N), is infinitely divisible, and leads to a bivariate Levy process with correlated gamma and negative binomial coordinates. We present basic properties of this model, which include densities, marginal and conditional distributions, representations, infinite divisibility, and stochastic self-similarity. We also discuss practical issues of estimation and relevance of this model in actuarial and financial mathematics. (Received July 24, 2006)