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An addition to my paper: “On certain theorems of Berry and a limit theorem of Feller”

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AN ADDITION TO MY PAPER: ON CERTAIN THEOREMS OF BERRY AND A
LIMIT THEOREM OF FELLER

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B.M. Zolotarev in a hitherto unpublished paper [1] (see the abstract [2] p.37) has given an improved estimate of Berry's constant, which occurs in the estimates (4) and (10) in [3]. As a consequence, some estimates of Theorems 1,2,3,4 [3] can be improved. Thus we get instead of the estimate (8) in Theorem 1 [3] the estimate

$$(8') \quad \bar{M} < 3,801 \bar{\alpha} ,$$

instead of the estimates (14) and (16) in Theorems 2,3 [3] the estimates

$$(14') \quad \bar{M} < 2,707 \alpha ,$$

$$(16') \quad M < 2,707 (\bar{\alpha}^*)^{\frac{1}{2+1}}$$

Lastly, for the estimate of the constant θ in Theorem 4 [3] (formula (22) a)) we get

$$(22') \quad a) |\theta| < 6,348 .$$

R e f e r e n c e s

- [1] В.М. ЗОЛОТАРЕВ: Некоторые неравенства теории вероятностей и их применение к уточнению теоремы А.М. Ляпунова (to be published)
- [2] В.М. ЗОЛОТАРЕВ: К вопросу об оценке остаточного члена в теореме А.М. Ляпунова. Тезисы Международ-

ного мат. съезда, Москва 1966 г., секция 11,
стр. 36-37.

- [3] C. LENÁRT: On certain theorems of Berry and a limit
theorem of Feller. Comment. Math. Univ. Caroli-
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