CORRECTION

LAPLACE’S METHOD FOR GAUSSIAN INTEGRALS WITH AN APPLICATION TO STATISTICAL MECHANICS¹

BY RICHARD S. ELLIS AND JAY S. ROSEN
University of Massachusetts

Chii-Ruey Hwang and Tzuo-Shuh Chiang have found an error on page 62 of our paper, which invalidates our proof of the upper bound (1.12). However, a correct proof of (1.12) has been found recently. In fact, E. Bolthausen has proved a large deviations result for sums of i.i.d. random vectors which take values in a real separable Banach space and which are distributed by probability measures \( \mu_n \) converging weakly to a probability measure \( \mu \) (“On the Probability of Large Deviations in Banach Spaces”, Technische Universität Berlin preprint, 1982). This result includes the Gaussian bounds (1.12) and (1.13) as special cases.

The Error. On page 62, we claim that \( \cap_r, \mathcal{A}_r, \subseteq \mathcal{A} \). This is wrong. Since \( \mathcal{A}_r \) is defined in terms of an \( L^2[0, 1] \)-neighborhood of \( \mathcal{A} \), it is easy to find examples of proper closed subsets \( \mathcal{A} \) in \( C[0, 1] \) for which \( \mathcal{A}_r \) is all of \( C[0, 1] \) and \( \cap_r, \mathcal{A}_r, \) is not a subset of \( \mathcal{A} \). Hence (1.12) is not proved correctly.

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BY S. S. MITRA
Pennsylvania State University, DuBois Campus


Mathematics Department
Pennsylvania State University
DuBois Campus
College Place
DuBois, Pennsylvania 15801

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² Received October 1982.