

A FIXED POINT PROOF OF LOCAL CENTRAL LIMIT THEOREMS

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ABSTRACT. We report on an improved version of a simple fixed point argument for central limit theorems for solutions of convolution equations which appear in connection with lace expansions, for instance for self-avoiding walks. The original version of this proof still used somewhat cumbersome estimates. By a slightly modification of the operator whose fixed point is the desired limit distribution, the technical difficulties are now much reduced. (Joint work with Christine Ritzmann)

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