APPROXIMATION DU TEMPS LOCAL DES CHAMPS ALÉATOIRES GAUSSIENS STATIONNAIRES PAR REGULARISATION DES TRAJECTOIRES

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Abstract: Let \( \{ X(t), t \in \mathbb{R}^d \} \) be a stationary gaussian field. We are looking for the \((d-1)\)-dimensional area measure of the intersection with zero level of the field regularized by convolution. Under some conditions and with an appropriated normalization, this measure converges in \( L^2 \) towards a limit which is the local time, when \( X \) admits a continuous local time.

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