

1077-35-534

Guillaume Bal* (gb2030@columbia.edu), 500 W 120th St, New York, NY 10023. *Random fluctuations of solutions to partial differential equations.*

The theory of homogenization is well understood for many elliptic partial differential equations. The theory of the random fluctuations (random corrector) of the heterogeneous solution is much less understood. This talk will review recent results obtained in this area and present some applications for such theoretical results. (Received September 06, 2011)