

On the Hausdorff dimension of random attractors

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We consider evolution equations in a Hilbert space over a fractal domain. We will introduce some concepts frequently used in the analysis on fractals.

Under suitable conditions we obtain a unique mild solution of the equation. Its solution operator generates a random dynamical system, which possesses a random attractor. Using a covering method we find an upper bound for the Hausdorff dimension of the attractor. We briefly comment on estimates for the lower bound.