

Séminaire de mathématiques et leurs applications

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Titre: An inverse problem for a fragmentation equation.

Résumé: I will consider the inverse problem for a fragmentation equation that is being used to describe the behavior of samples of amyloid fibrils when undergoing turbulent agitation. We will see how it is possible from some experimental noisy measurements to determine, the fragmentation rate (under the assumption that it is a power law), and the fragmentation kernel (assuming that it has a self similar structure). This is a joint work with M. Doumic (Labo J. L. Lions & Inria) et M. Tournus (Institut Math. de Marseille).