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【251】Non-uniqueness for the Navier–Stokes initial value problem

Wednesday 23 August 2017 14:00 (30 minutes)

We will discuss the initial value problem given by the incompressible Navier–Stokes equations in $\mathbb{R}^3$. All known well-posedness results for this problem are in the perturbative regime and in this talk we will show numerically that the problem is ill-posed outside the perturbation regime. More precisely, we numerically construct two different solutions having the same initial datum in borderline spaces.

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