SOLVING THE NAVIER–STOKES EQUATION ON THE COMPLEMENT OF A THIN SET

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We construct wild solutions to the Navier–Stokes equations which have bounded kinetic energy, integrable vorticity, and which are smooth almost everywhere. In fact, these solutions are smooth outside a fractal set of times with Hausdorff dimension strictly less than one. This is based on joint work with T. Buckmaster and M. Colombo.