

BERNOULLIS TAFELRUNDE

MATH STUDENT AND PHD SEMINAR

Tuesday, 22 October 2024, 12:15 - 13:00
Seminar Room 00.003, Spiegelgasse 1

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Bernoulli Introducing Bounded Solutions to the Continuity Equation

ABSTRACT

In the study of the continuity equation, a first step is to establish uniqueness of solutions in a certain class. In the smooth setting the uniqueness holds, provided one assigns the value of the solution on a suitable region of the boundary of the domain. In our setting of low regularity, one needs to introduce a suitable notion of boundary trace for the advecting vector field; this will lead to some connections with other fields in analysis.