



UNIVERSITÀ
DI TRENTO

Dipartimento di
Matematica

DOTTORATO



Thursday May 23th, 2024 – 2.30 pm

Room A214 – Polo Ferrari,1
Via Sommarive, 5 Povo - Tn

Stefan Moreti

PhD Student in Mathematics

Controlling flows on networks via time-varying Riemann Solvers

Abstract:

We consider the Cauchy problem for a conservation law on networks with generic Riemann Solvers at nodes depending on parameters. Riemann Solvers can be seen as control functions, moreover parameters can vary in time. Using estimates on the total variation of the fluxes, via the front-wave tracking method, a solution to the Cauchy problem with bounded variation initial datum is found.

Contact person: Fabio Bagagiolo

The seminar corresponds to the final exam of

“Advances in Mathematical Analysis and Applications. Euscotha: Euregio School on Control Theory and Applications”

CONTATTI

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