

## Departmental Colloquium

*A theory for first- and second-order partial differential equations on junctions*

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**Abstract:** I will present recent developments about first- and second-order PDE on junctions. I will discuss some concrete applications, the well-posedness of the problems, as well as stability of asymptotic limits including fattening of domains. If time permits, I will also present some new results about scalar conservation laws along the same spirit. This is joint work with Pierre-Louis Lions.

Friday, September 15 at 3:00 PM in SEO 636