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Courant algebroids and their integrations

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The problem of integrating Poisson manifolds into symplectic groupoids, as proposed by Karasev and Weinstein in the 1980s, resulted in a drastic change in the Poisson geometry community. Today, symplectic groupoids are a central object of study in Poisson geometry.

In this mini-course, I will explain how Courant algebroids can be integrated into 2-shifted symplectic Lie 2-groupoids and present several concrete examples, including quadratic Lie algebras, Drinfeld doubles, and exact Courant algebroids.