

## **On the Complexity of First Order PDEs**

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We study the complexity of solving certain classes of scalar first order partial differential equations. This is done in the framework of information based complexity theory. We consider both the deterministic and the randomized setting for standard information. The coefficients and right-hand side are assumed to belong to various function classes. The analysis is based on the classical method of characteristics and uses recently obtained results on the complexity of parametric ordinary differential equations (which will be reviewed in the talk).