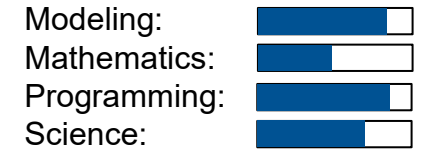


Regularization of ultrasonic waveform inversion

Project Characteristics



Task

- **Objective:** Regularization of the ultrasonic full waveform inversion
- Develop a finite difference based full waveform inversion (FWI) framework
- FWI is inherently ill posed problem which makes regularization important for reaching a physically meaning full minima
- Adding rules or constraints to prevent a model from overreacting to noisy or insufficient data.
- Tikhonov regularization, Total variation regularization, Implicit regularization etc

