



# FMSP Lectures

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Solvability and approximate solution of a  
coefficient inverse problem for  
the kinetic equation

July 24 (Friday) 16:00 ~ 19:00 Room 268

**Abstract:**

The existence, uniqueness and stability of the solution of a coefficient inverse problem for the kinetic equation are proven.

The approximate solution of the problem in one-dimensional case is investigated by using two different techniques: finite difference approximation (FDA) and symbolic computation approach (SCA).

A comparison among the exact solution of the problem, the numerical solution obtained from FDA and the approximate analytical solution obtained from SCA is presented.