

# On a final value problem for a bi-parabolic equation with statistical discrete data

**Tran Ngoc Thach**

Pre. PhD Student - University of Science  
ngocthachtnt@gmail.com

## **Abstract**

In this work, a multi-dimensional final value problem for a bi-parabolic equation with discrete data in two cases including linear source and nonlinear source is considered. In each case, the instability of the solutions is shown, approximate solutions are constructed by applying regularization methods. In addition, the convergence estimates and numerical experiments showing the flexibility of regularization methods are given.