



Mathematisches Kolloquium

The counterfactual model

A mathematical language for causal inference that improves real-life decision making

Sprecher: Prof Dr. Mats Stensrud

Eingeladen von den Doktoranden der Mathematik

28.06.2019 | 14:30 Uhr | R220 HeHo 18

Statisticians have tended to avoid the word «causal» when analysing data. Nevertheless, statistics is frequently used to justify real-life actions, which typically concern causal relationships. In this talk, I will argue that a mathematical language for causal inference has led to a paradigmatic shift in the analysis of real-life data, in particular in medicine. To support my claim, I will introduce the counterfactual framework and relate this framework to causal diagrams. Then, I will present examples from the field of survival analysis, where the causal inference framework has illuminated several issues in recent years.

Der Vortrag ist für ein breites Publikum geeignet