

# MEASURES OF NONCOMPACTNESS AND THEIR APPLICATIONS

## workshop schedule

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24 September, 2025 | 12:00

dr Szymon Dudek

THE SOLVABILITY OF AN INFINITE SYSTEM OF  
NONLINEAR INTEGRAL EQUATIONS ASSOCIATED  
WITH THE BIRTH-AND-DEATH STOCHASTIC PROCESS

dr Justyna Madej

MEASURES OF NONCOMPACTNESS IN THE STUDY OF THE  
SOLVABILITY OF INFINITE SYSTEMS OF INTEGRAL  
EQUATIONS ON THE REAL HALF-AXIS

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25 September, 2025 | 11:00

mgr Justyna Szczupiel

SOLVABILITY OF A QUADRATIC HAMMERSTEIN INTEGRAL  
EQUATION OF RIEMANN-STIELTJES TYPE  
ON AN UNBOUNDED INTERVAL

Dušan Oberta

EXISTENCE OF SOLUTIONS OF FRACTIONAL  
DIFFERENTIAL EQUATIONS IN BANACH SPACES

prof. dr hab. Józef Banaś

KURATOWSKI MEASURE OF NONCOMPACTNESS  
AS A DISTANCE

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