

# Seminar on Advances in Statistics

March 9-12, 2023 in Veliko Tarnovo, Bulgaria

## Thursday (09.03)

14:00 – 17:00 Transfer from Sofia Airport to Veliko Tarnovo (shuttle bus)

19:00

Welcome Dinner

## Friday (10.03)

09:00 – 09:40 **Maria Kateri.** Minimal repair processes under a failure rate based step-stress test

09:40 – 10:10 **Nikolay Nikolov.** Optimal test plans for multilevel step-stress accelerated life testing with log-normal distribution

10:10 – 10:30 **Yao Lu.** Simple heterogeneous step-stress accelerated life testing mode

Coffee break

11:00 – 11:40 **Agnieszka Goroncy.** On upper estimates of order statistics and spacings from monotone reversed failure rate distributions

11:40 – 12:20 **Magdalena Szymkowiak.** Some properties of generalized reversed aging intensity functions

Lunch

14:00 – 14:40 **Udo Kamps.** Point prediction of upper record values

14:40 – 15:00 **Christina Empacher.** Comparison of prediction intervals for exponential record values

15:00 – 15:30 **Denitsa Grigorova.** Modelling longitudinal cognitive test data with ceiling effects and left skewness

Coffee break

16:00 – 18:00 **Workshop and discussions**

19:00

Dinner

## Saturday (11.03)

09:00 – 09:40 **Anna Dembinska.** Asymptotics of maximum likelihood estimators based on discrete Type II right censored samples

09:40 – 10:20 **Eugenia Stoimenova.** Multi-sample rank tests for location against ordered alternatives

	<b>Coffee break</b>
10:50 – 11:30	<b>Leda Minkova.</b> Geometric Polya-Aeppli process
11:30 – 11:50	<b>Diana Rauwolf.</b> Characterizations of the exponential distribution based on the order-statistics and the record-values property within renewal processes
11:50 – 12:10	<b>Martin Minchev.</b> Bivariate Bernstein-Gamma functions and asymptotic behaviour of exponential functionals on deterministic horizon
	<b>Lunch</b>
13:30 – 18:00	<b>Sightseeing in Veliko Tarnovo</b>
	<b>Dinner in Veliko Tarnovo</b>
<b>Sunday (12.03)</b>	
09:30 – 10:30	<b>Ognyan Kounchev.</b> The experience of mathematical modeling and analysis of the Covid-19 pandemic
10:30 – 11:10	<b>Tsvetelin Zhevski, Dragomir Nedeltchev.</b> Exploiting the gap between the real-world and risk-neutral probability measures
	<b>Lunch</b>
13:00 – 16:00	Transfer from Veliko Tarnovo to Sofia Airport (shuttle bus)