



# Mathematical Sciences 2026 Colloquium Series



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February 27, 2026, at 3:00pm  
Bell Hall, Room 130 and online  
via Zoom *Scan the QR-code to access  
the link.*



## **Bayesian Optimum warranty region for right-censored two-dimensional dependent data.**

This is the second installment of our previous work on the optimal warranty region. We defined a utility function as the difference between Economic benefit and Warranty cost and analyzed the data in a classical setup. Now, we have introduced another component, called Dissatisfaction Cost, into the utility function. However, we try to see the problem in a Bayesian setup. In addition to the last data set, we analyzed a new bivariate failure data set for starter motors of size 43. Although it is an ongoing project, we will present the results we have obtained to date. We will also reintroduce the results from our last research from the classical setup.

Hosted by: Dr. Emil Schwab.

For further information, please contact Dr. Emil Schwab, [eschwab@utep.edu](mailto:eschwab@utep.edu)