

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES

COLLOQUIUM

Friday, September 19
3:00 – 4:00 PM
Maria Sanford, Room 101

STRENGTHENING OF DE GROOT'S, SPADARO'S, AND BELLA'S INEQUALITIES FOR URYSOHN SPACES

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Abstract: In this talk I will present my recent result about the upper bound of the cardinality of Urysohn spaces that improves some cardinal inequalities due to de Groot, Spadaro, and Bella.

To make the talk accessible for students I will briefly introduce the concepts of cardinal numbers and topological spaces. Then, using examples from the real line, I will introduce some cardinal functions that will help me formulate de Groot's, Spadaro's, and Bella's inequalities, as well as my own result. After that I will show why my result gives a better upper bound of the cardinality of Urysohn spaces than the above-mentioned three other cardinal inequalities.

To join us online use the following link: <https://ccsu.webex.com/meet/gotchev>

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<http://mathcolloquium.sites.ccsu.edu/>