



# COLLOQUIUM

Dan Florentin

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**New Functional Polarity Inequalities**

**Friday October 4th at 3pm in RT 1516**

*Bio:* Prof. Florentin received my Ph.D. from Tel Aviv University (Israel). Dan is currently a visiting assistant professor in Cleveland State University. His main research interests are convex geometry and asymptotic geometric analysis.

*Abstract:* Several functional analogs of fundamental geometric inequalities have appeared in recent decades, beginning with the works of Prekopa and Leindler in the 1970's. In this talk I will, after discussing the method of functionalization of geometry, present new functional extensions of the Brunn-Minkowski inequality and their consequences. I will also discuss functional counterparts of the Blaschke-Santaló inequality, regarding the Mahler volume of a convex body.

Refreshments at 2:30pm in RT 1517