

**THE CATHOLIC UNIVERSITY OF AMERICA**  
**Washington, DC 20064**

**SEMINAR IN FUNCTIONAL ANALYSIS**  
**AND RELATED AREAS**

**Wednesday, January 25, 2023**

**5:10 p.m. - 6:50 p.m. (including a coffee break)**

**SPEAKER:** Professor Alexander Levin  
The Catholic University of America

**TITLE:** Gröbner bases and their applications in the theory of algebraic equations, geometry and graph theory.

**ABSTRACT:** We will review the Gröbner basis method and show how it can be applied to solving systems of algebraic equations, geometric problems and graph coloring.

**PLACE:** Aquinas Hall, room 108. The talk will be on Zoom as well (from 4:45 p.m. to 6:30 p.m. ET). The corresponding link will be sent to everyone in advance.

**ORGANIZERS:** V. Bogdan (The Catholic University of America), P. Kainen (Georgetown University), R. Kalpathy (The Catholic University of America), and A. Levin (The Catholic University of America).

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**Web page:**

<https://mathematics.catholic.edu/faculty-and-research/mathematics-seminar/index.html>