Ehrhart Polynomials of Integer Polytopes

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Undergraduate Math Club
CORNELL UNIVERSITY

64	2	3	61	60	6	7	57
9	55	54	12	13	51	50	16
17	47	46	20	21	43	42	24
40	26	27	37	36	30	31	33
32	34	35	29	28	38	39	25
41	23	22	44	45	19	18	48
49	15	14	52	53	11	10	56
8	58	59	5	4	62	63	1

An 8×8 magic square.

SPEAKER

Professor Karola Meszaros

ABSTRACT

In this talk we define Ehrhart polynomials of integer polytopes and show how they can be useful in proving Pick's theorem about the area of a polygon, or counting the number of magic squares.

MAY 2 · 5:30

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Malott 5th floor lounge · refreshments served