

Department Of Mathematics
**Algebra, Number Theory,
and Discrete Math Seminar**

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Title: Fundamental Theorem of Algebra, improved

Abstract: The algebraic proof of the fundamental theorem of algebra uses two facts about real numbers. First, every polynomial with odd degree and real coefficients has a real root. Second, every nonnegative real number has a square root. It is proved in characteristic zero that the assumption about odd-degree polynomials is stronger than necessary; any field of characteristic zero in which polynomials of prime degree have roots is algebraically closed. In this talk, we show that this result is the case for all fields, regardless of their characteristics.

Wednesday May 1, 2024

LO1328

2:15 PM – 3:15 PM

and Via Zoom meeting

Request link from daniel.katz@csun.edu