

INVITATION TO THE DOCTORAL SEMINAR

Carmelo Antonio Finocchiaro

University of Catania

"Unitary ideals of rings of integer-valued polynomials"

VN.2.35

🛗 Wednesday, 4 June 2025

② 10:00 a.m.

Abstract

Let D be an integral domain with quotient field K. The following subring

 $Int(D) := \{ f \in K[T] \mid (f(D) \subseteq D \}$

of K[T] is usually called the *ring of integer-valued polynomials over* D. The ideal theory of this type of rings is quite fascinating and mysterious. We will concentrate our attention to the unitary ideals of Int(D), that is, ideals containing some nonzero constant. More precisely, when D is a Dedekind domain with finite residue field, we will fully describe in topological terms certain classes of radical unitary ideals of Int(D). Joint work with A. Loper.

Roswitha Rissner and the Department of Mathematics look forward to seeing you at the talk!

