

INVITATION TO THE DOCTORAL SEMINAR

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“Unitary ideals of rings of integer-valued polynomials”

📍 N.2.35

📅 Wednesday, 4 June 2025

🕒 10:00 a.m.

Abstract

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

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

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 $\text{Int}(D)$, 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 $\text{Int}(D)$. Joint work with A. Loper.

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