

# Numerical-Valued Polynomials

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We use the term  $\text{Int}(N)$  to refer to a set of polynomials  $p \in \mathbb{Q}[X]$  that meet the condition  $p(N) \subseteq N$ , where  $N$  is a numerical monoid. These polynomials are referred to as *numerical-valued polynomials*. Exploring the multiplicative behavior of numerical-valued polynomials serves as a natural extension of the study on the multiplicative properties of numerical monoids, as recently addressed in [1]. In this talk, we will delve into the algebraic and factorization properties exhibited by numerical-valued polynomials.

## References

- [1] N. R. Baeth and M. Enlow: *Multiplicative factorization in numerical semigroups*, Int. J. Algebra Comput. **30** (2020) 419–430.