ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE DOCTORAL SEMINAR

Associated primes of powers of monomial ideals

Jutta Astrid Rath | Universität Klagenfurt

Chaired by Clemens Heuberger | Department of Mathematics

Wednesday, 27 April 2022 | 11:00–11:30

V.1.02

ABSTRACT

A recurring topic in mathematics is to decompose objects into smaller, better understood parts. For example, every natural number can be decomposed into a product of prime numbers. The Lasker-Noether Theorem (1904, 1921) states that any ideal in a Noetherian ring can be decomposed into primary ideals. This allows to associate a unique set of prime ideals to every ideal, the so-called associated primes. It is known that the sequence of the set of associated primes of powers of monomial ideals stabilizes at some point: the stability index. This talk will introduce approaches to derive an upper bound for this stability index.

We hope to see you there!