ALPEN-ADRIA UNIVERSITÄT KLAGENFURT

INVITATION TO THE DOCTORAL SEMINAR

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"Associated primes of powers of monomial ideals"

V.1.02 | Wednesday, 27 April 2022 | 11:00 a.m.

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.

Clemens Heuberger and the Department of Mathematics look forward to seeing you at the talk!