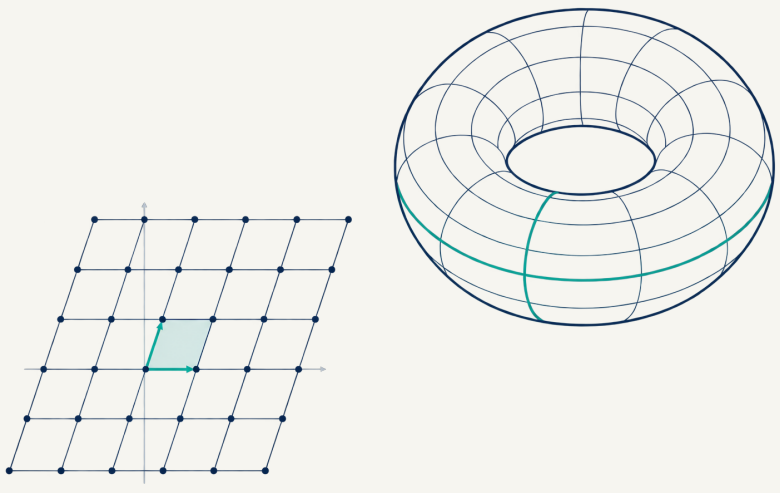
KRIMS 산술구조연구그룹 정기세미나

KRIMS – Arithmetic Structures Research Group
Regular Seminar



A brief introduction to factorization theory

SPEAKER

Dr. Andreas Reinhart

KRIMS Visiting Researcher

DATE & TIME

Wednesday, November 25, 2026

5–6 PM

VENUE

Room 201, Natural Sciences Bldg. 5

Zoom (Hybrid)

Join Zoom

ABSTRACT

The main goal of factorization theory is to study product decompositions of elements and ideals of integral domains (or more general structures) into other types of elements or ideals. In this talk, we will give a broad overview on various product decompositions into elements (and ideals), including decompositions into atoms, valuation elements and radical elements. Moreover, we will discuss the importance of these types of decompositions and present some objects that are used to describe them. These objects include invariants like lengths sets, catenary degrees and sets of distances. If time permits, we will outline the most important results of our research (so far) and discuss a few open problems.