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# Discrete Analysis Seminar

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## Introduction to zoo of coinvariant rings

The classical coinvariant ring  $R_n$  is an important representation with significant connections to combinatorics, representation theory, and algebraic geometry. Over the past three decades, several generalizations of coinvariant rings and their structures have been studied. In this talk, I will offer a concise historical overview of coinvariant rings and introduce two specific instances: Garsia–Haiman modules and diagonal coinvariants. Furthermore, I will delve into recent discoveries that establish connections between these two examples. This is based on joint work with Donghyun Kim and Seung Jin Lee.

**Date:** 14th Sep, 2023

**Time:** 5:00pm - 6:00pm

**Location:** 255, Science Building



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주최: 4단계 BK21 수리과학 및 계산교육 연구단

