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CHAIN CONDITIONS IN MODULAR LATTICES

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Abstract

In a modular lattice, or more generally a partially ordered set, it makes sense to talk about ascending (i.e. increasing) and descending (i.e. decreasing) chains of elements and therefore Noetherian and Artinian objects. The deviation and codeviation of a partially ordered set gives a measure of how far it is from being Artinian or Noetherian. Standard Ring and Module Theory theorems concerning chain conditions can be considered in a lattice context and we shall try to give a number of examples along with some open questions.

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Place: IMBM Seminar Room, Boğaziçi University