

LUIGI AND LÁSZLÓ'S WORK ON UNISERIAL MODULES, AND BEYOND

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A module is *uniserial* if its lattice of submodules is linearly ordered under inclusion. Luigi and Lszl, in their study of modules over valuation domains, quickly realized the importance of uniserial modules when dealing with modules over a valuation domain. In this talk, we will present some properties of this class of modules.

A module is *serial* if it is a direct sum of uniserial modules. We will consider sums and isomorphisms of subquotients of serial modules. Finally, we will see which properties of uniserial modules over commutative rings also hold when the base ring is not commutative.