

ABSTRACT
DIRECT SUMS OF FINITELY GENERATED MODULES

by
SABRINA ELCERIA SIHOMBING

Let R ring, M R -module and A be a generating set of M . R -module M be a finitely generated of A if A is countably set. Sum of submodules of the R -module M is called direct sum if intersection of submodules is 0 and sum of submodules is R -module M . In this research, will be described characterization direct sums of finitely generated modules. M is a direct sum of finitely generated modules if and only if every finitely generated submodule of M is contained in a finitely generated direct summand.

Keyword: *Module, Generating Set, Direct Sum*