

# Relative coherent modules and semihereditary modules

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Given a positive integer  $n$ , a left  $R$ -module  $M$  is called  $n$ -coherent (resp.  $n$ -semihereditary) if every  $n$ -generated submodule of  $M$  is finitely presented (resp. projective). We investigate the properties of  $n$ -coherent modules and  $n$ -semihereditary modules. Various results are developed, many extending known results.

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