

# Monogeny class, epigeny class, lower part, upper part

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Abstract:

Direct-sum decompositions for some classes of modules can be described by two invariants. This is the case of finite direct sums of biuniform modules, which can be described by their monogeny class and epigeny class. Also, this is the case of finite direct sums of couniformly presented modules, which can be described by their epigeny class and lower part. This is the case also of finite direct sums of kernels of morphisms between indecomposable injective modules. They can be described by their monogeny class and upper part. We will discuss the general theory behind these particular examples.