

## **New interpretations of Goldie dimension and its dual**

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We introduce two classes of modules, avoiding modules and their dual co-avoiding modules. We explore their properties and give non-trivial examples. We observe that a module  $M$  has Goldie dimension if and only if it is  $n$ -avoiding, and also  $\text{co-dim } M = n$  if and only if  $M$  is co- $n$ -avoiding. We also introduce infinite avoiding and infinite co-avoiding modules and observe that in infinite cases they are not equal to infinite Goldie dimension and infinite dual Goldie dimension.