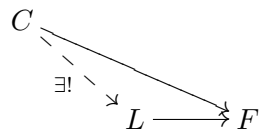


Lim

LIMIT · PROJECTIVE LIMIT · INVERSE LIMIT · FINAL CONE

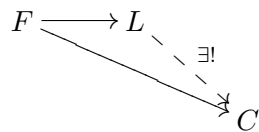


For a functor F , the LIMIT is a cone $L \rightarrow F$ over F such that for any cone $C \rightarrow F$ there is a unique map $C \rightarrow L$ making the diagram commute.

Examples: Terminal object, equaliser, kernel, product, pullback.

Lim

COLIMIT · INDUCTIVE LIMIT · DIRECT LIMIT · INITIAL COCONE



For a functor F , the COLIMIT is a cocone $F \rightarrow L$ under F such that for any cocone $F \rightarrow C$ there is a unique map $L \rightarrow C$ making the diagram commute.

Examples: Initial object, coequaliser, cokernel, coproduct, pushout.