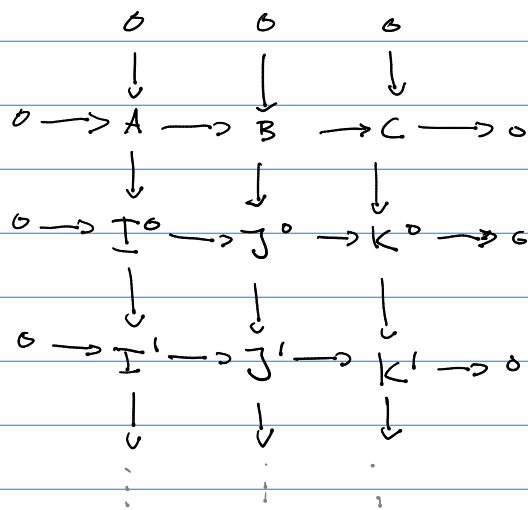


Bruzzo.

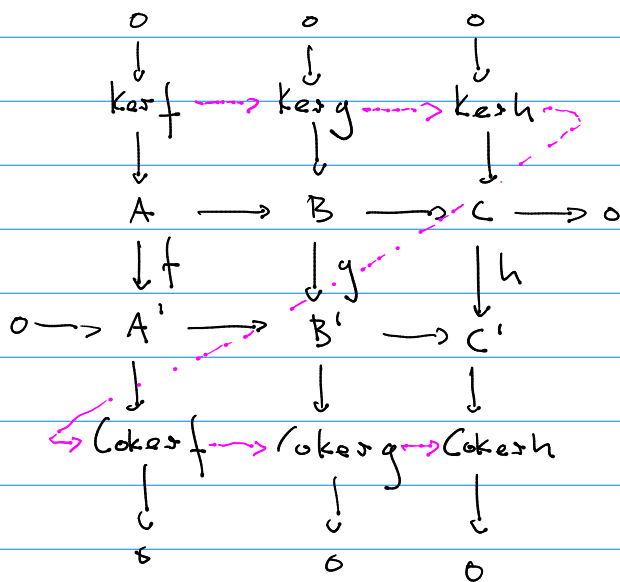
Horse shoe lemma.



given  $0 \rightarrow A \rightarrow B \rightarrow C \rightarrow 0$   
and the objects'  
resolutions

Pf. induction using  
the snake lemma.

Snake lemma.



, and  $\xrightarrow{\quad}$  is exact.

- stopped writing for a bit.

- F-acyclic objects:  $A \in \mathcal{A}$  is F-acyclic if  $R^{\geq 0}(F(A)) = 0$ .
- a resolution  $0 \rightarrow A \rightarrow L^0 \rightarrow L^1 \rightarrow \dots$  is an F-acyclic resolution  
if each  $L^i$  is F-acyclic

Thm.  $0 \rightarrow A \rightarrow L^\bullet$   $F$ -acyclic resolu  
 $\Rightarrow H^i(F(L^\bullet)) \xrightarrow{\sim} R^i F(A), i \geq 0$ , naturally.