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short exact sequence

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Let  $A, B, C$  be objects in an abelian category. A is an exact sequence of the form

$$0 \rightarrow A \rightarrow B \rightarrow C \rightarrow 0.$$

Note that in this case, the homomorphism  $A \rightarrow B$  must be a monomorphism, and the homomorphism  $B \rightarrow C$  must be an epimorphism.