

Tree oriented pullbacks

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Given two algebra morphisms $f_A: A \rightarrow B$ and $f_C: C \rightarrow B$, one can define a new algebra R given by $\{(a, c) \in A \times C: f_A(a) = f_C(c)\}$ and called it the *pullback of f_A and f_C* . The idea of this talk is to look at some homological relationships between the original algebras A , B and C and the corresponding properties for the pullback R . In order to relate, eg, the defining properties of classes of tilted, quasitilted, shod and sided supported algebras, one has to impose some further conditions on the algebras A , B and C and the so-called property *tree oriented* given on their bounded quivers appears naturally.

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