Conférence « ARTA III : Avancées en théorie des représentations des algèbres » 16-20 juin 2014

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Tree oriented pullbacks

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Given two algebra morphisms $f_A: A \longrightarrow B$ and $f_C: C \longrightarrow B$, 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 relantionships between the original algebras A, B and C and the correspoding 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.

Joint work with H. Wagner.

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