

Beck Theorem for pseudo-adjunctions

Ivan Le Creurer

A pseudo-adjunction $(U, F, \eta, \epsilon, s, t) : \mathcal{A} \rightarrow \mathcal{C}$ between the 2-categories \mathcal{A} and \mathcal{C} induces a pseudo-monad \mathbf{T} on \mathcal{C} and a comparison 2-functor from \mathcal{A} to the 2-category of pseudo- \mathbf{T} -algebras. We show that Beck's theorem for ordinary adjunctions can be adapted to the 2-dimensional context, and give a characterization of pseudo-monadic pseudo-adjunctions.