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Richard Blute* (rblute@uottawa.ca). *Derivations in codifferential categories.*

It is a folklore result of algebra that there is a natural correspondence between derivations from an algebra A to an A -module M and algebra homomorphisms from A to $A \oplus M$, equipped with an appropriate algebra structure. This result was lifted to more general categorical settings by Jon Beck.

We show that codifferential categories, i.e. duals of models of differential linear logic, provide an ideal framework for considering this correspondence. We introduce the notion of Beck T -derivation and show that it correctly generalizes previous results in the theory of Kahler categories.

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