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Keith O’Neill* (tonei018@uottawa.ca). *Derivations in Kähler Categories.*

Kähler categories, as defined by Blute-Cockett-Porter-Seely, provide a conceptual framework to study differential structure. It is an abstract setting in which the study of universal derivations in a variety of contexts is made precise and simple. Codifferential categories, i.e. the duals of models of differential linear logic, frequently provide examples of Kähler categories.

Kähler categories are equipped with an algebra modality, i.e. a monad T and a commutative associative algebra structure for each object of the form TA , as well as modules of differential forms for all of these algebras. We show that from this structure one can in fact derive a module of differential forms for all T -algebras.

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