

1096-18-1432 **Emily Riehl*** (eriehl@math.harvard.edu), Department of Mathematics, 1 Oxford Street,
Cambridge, MA 02138. *Homotopy coherent adjunctions*.

We show that an adjoint functor between quasi-categories may be extended to a simplicially enriched functor whose domain is an explicitly presented “homotopy coherent adjunction”. This adjunction data encapsulates both the homotopy coherent monad and comonad defined by the adjunction. Using this result, we construct the quasi-category of algebras associated to a homotopy coherent monad and give a formal re-proof of the classical monadicity theorem. This is joint work with Dominic Verity. (Received September 15, 2013)