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*Refining Poincaré Duality*

We refine Poincaré duality by showing that closed manifolds satisfy Poincaré duality at the chain level. More precisely we prove that every commutative differential graded algebra whose cohomology is a simply-connected Poincaré duality algebra is quasi-isomorphic to one whose underlying algebra is simply-connected and satisfies Poincaré duality in the same dimension. We apply our result to the study of CDGA models of configuration spaces on a closed manifold.