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William Chin* (chin.bill@gmail.com), Dept. of Mathematical Sciences, DePaul University,
Chicago, IL 60614. *Coverings of graded pointed Hopf algebras.*

We introduce coverings of graded pointed Hopf algebras. The theory developed shows that covering Hopf algebras of a bosonized Nichols algebra can be concretely expressed by biproducts using a quotient of the universal coalgebra covering group of the Nichols algebra. If there are enough quadratic relations, the universal coalgebra covering is given by the bosonization by the enveloping group of the underlying rack. Coverings provide infinite families of link-indecomposable finite-dimensional Hopf algebras over a range of examples with nonabelian groups of group-like elements. (Received August 17, 2014)