

## Abstract

Let  $\mathbb{k}$  be an algebraically closed field of characteristic 0 and let  $\mathbb{D}_m$  be the dihedral group of order  $2m$  with  $m = 4t, t \geq 3$ . We classify all finite-dimensional Nichols algebras over  $\mathbb{D}_m$  and all finite-dimensional pointed Hopf algebras whose group of group-likes is  $\mathbb{D}_m$ , by means of the lifting method. As a byproduct we obtain new examples of finite-dimensional pointed Hopf algebras.