SMALL BIALGEBRAS WITH A PROJECTION

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ABSTRACT. Let A be a bialgebra with an H-bilinear coalgebra projection over an **arbitrary** subbialgebra H with antipode. In characteristic zero, we completely describe the bialgebra structure of A whenever H is either f.d. or cosemisimple and the H-coinvariant part R of A is connected with one dimensional space of primitive elements.