

REFLECTION THEORY FOR (CO)QUASI-HOPF ALGEBRAS

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Abstract: Reflection theory for Hopf algebras is a fundamental tool for classification of pointed Hopf algebras. Through reflection theory, one can define the corresponding Weyl groupoid and root system theory for Nichols algebras. We will explain this theory in this talk at first. For a long time, we don't know how to generalize such tool to (co)quasi-Hopf algebras. Secondly, we show that we have such an theory for (co)quasi-Hopf algebras with bijective antipode briefly. This is a joint work with Dr. Bowen Li.