

## **Categorical approach to path (co)-algebra construction.**

We show that with a minor change in the category of quivers (called  $V$ quivers) one obtain an adjoint pair of functors between a quotient category of pointed coalgebras and the category of  $V$ quivers. This generalizes, for instance, the well known fact that every basic coalgebra over an algebraically closed field is isomorphic to a subcoalgebra of the path coalgebra of its Gabriel quiver.