AFFINGE GROUP SCHEMES 06

A $\Bbbk$-module V with $\Bbbk$-linear $\rho : V \to V \otimes A$ satisfying $(\mathrm{id} \otimes \epsilon)\rho = \mathrm{id}$ and $(\mathrm{id} \otimes \Delta)\rho = (\rho \otimes \mathrm{id})\rho$ is called an A-comodule.