Derivations and Square zero extensions

A colga, M a dy module Derivation S: A -> M

More generally, A = B \Leftrightarrow derivation $B \xrightarrow{\text{der}} f_*M$ S'B B-lin f* M U-SpecA - V-SpecB f* Q' A-lin→ M

Juven a prestack X: Aff = cdga = > Spc and a point $Spec A = U \xrightarrow{\alpha} X$ and $F \in QCoh(u)^{\leq 0}$, look at extensions



Say X has a <u>cotangent space</u> at x if + is corepresented by $T_n^*(x) \in \mathbb{Q}(\operatorname{ch}(x)^-)$

• If X = Spec B then $T_{\lambda}^{*}(x) = f^{*}\Omega_{B}^{1}$