Cheng-Ming Bai's Hefei talk (C-M·B. is @ Nankai U?)

November 8, 2018   7:47 PM

NTS: I've never understood the Maurer-Cartan eqn.

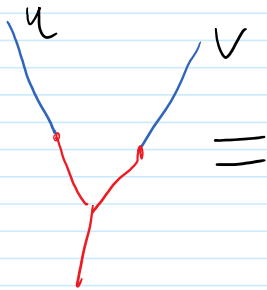C-M·B·: Let g be a Lie algebra w/ a rep. $\rho: g \to gl(V)$. An O-operator g w.r.t. V is a linear map $T: V \to g$ s.t. $\forall u, v \in V$,
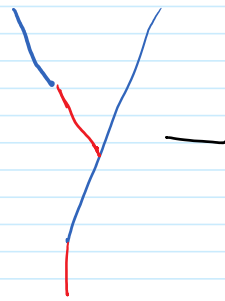
$$[Tu, Tv] = T(\rho(Tu)(v) - \rho(Tv)(u))$$

} Does it make sense to split T to T_u & T_v?
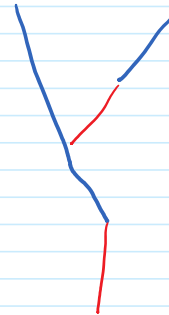
$T \in V^* \otimes g$ $V^* \underline{\quad\quad T \quad\quad} g$

δT

$$\left|\!\!\to\!\!\right| + \left|\!\!\to\!\!\right| + \left|\!\!\to\!\!\right| = 0$$

C-M·B·: "If $V = g^*$, This becomes the CYBE".

I don't see that.   Okay, maybe.

Q. Is there a global version, like YB is a global version of CYBE? Is it related to annular braids? [In both cases, a rep can be chosen away from one strand].