

Q: what should we call that general genre of theorems, saying that  $A^c = A^t$ ? something about "Lie-emergence", but I'm missing a word or a concept.

"Bracet appearance"?

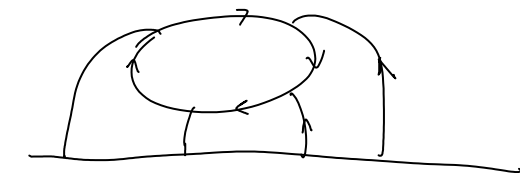
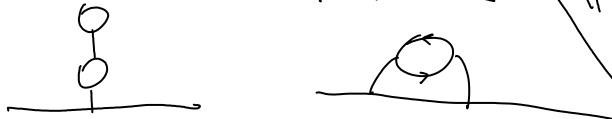
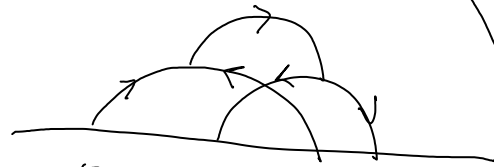
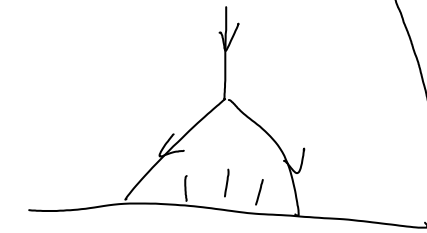
"Bracket unravelling"

"Emergence of the bracket"?

"Lie-rise"?

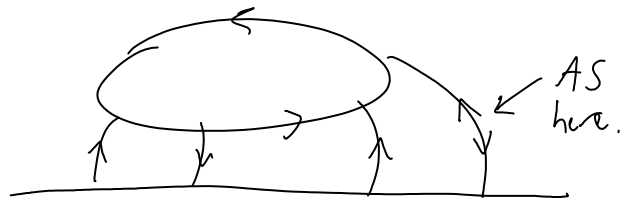
"Bracet-rise"?

"debut"?



Question: what's  $\vec{A}^c := \vec{A}^t / \vec{A}^a$ ?

Relations in  $\vec{A}^c$ : 1. In a 1-cycle diagram, all spokes are AS:



Question: What's  $\vec{A}^a [\circlearrowleft]$ ?

It's probably right to interpret  $\vec{A}^t / \vec{A}^a$  in some Hopf sense, so that  $\vec{A}^c$  would be a bi-algebra.

$\Delta: A/I \rightarrow A/I \otimes A/I$  is well-defined when

$$\Delta I \subset I \otimes A + A \otimes I$$