## Peter Lee on November 3, 2009

Manin triple: (9,9+,4-) st. ---< a basis of 9\_ <e'> The Jual basis of y+ r= I e'& l; & y\_ &y\_ < y &y "="

... more on the diagrammatic calculus

Drinfel'd double: Let of an LBA, (9, a, a\*) be the associated Manin triple. Let r= El'el; CM\*On as befor.

Claim V gives a quasi-triangular LBA structure on g.

for = la - fa\*

We still need to show that V+/21 15 g-invariant.

And that CYB(V) = 0And that CYB(V) = 0A -> A, adjoint to the "double"  $\alpha > \alpha$ .

What is it? Surely it is trivial.