The underlying fact is that the 3 notions are obviously closely related, but here are some mismatches that indicated that these notions still need to evolve a bit before we can claim the matching understood.

* Diags/6T $\iff$ Bialgs: If bialgs are necessary, why is there a solution of IYBE in $U(\mathfrak{g})$ for a semi-simple $\mathfrak{g}$, without a need to double the Cartan?

* FiC? In v-knots, kinks ϕ (and virtual kinks, ϕ which don't really exist) are central, and hence in Diags/6T we have an FiC (Framing is Central) relation. But quantum invariants do not extend to v-knots keeping the kinks central.

* v-knots   Bialgs   In quantized universal enveloping
   $\downarrow Z$ $\iff$ $\downarrow$ algebra the product is deformed.
   Diags/6T   QUEA   I don't know how to see
that in the "expansions" world.