

Dror's Dream Map of Quantum Groups \subset Knot Theory

Drinfel'd, Etingof-Kazhdan

Prehistoric

Hallucinations
about
Khovanov

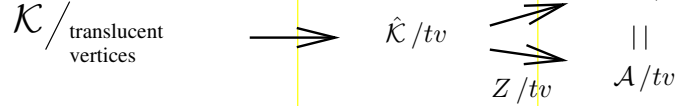


CATEGORIFICATION

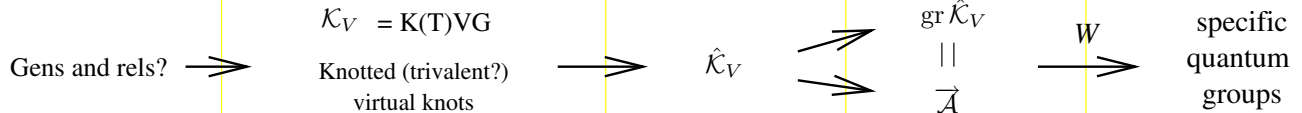


Some harsh reality.
EK mix tangles and braids
and algebras and Verma modules

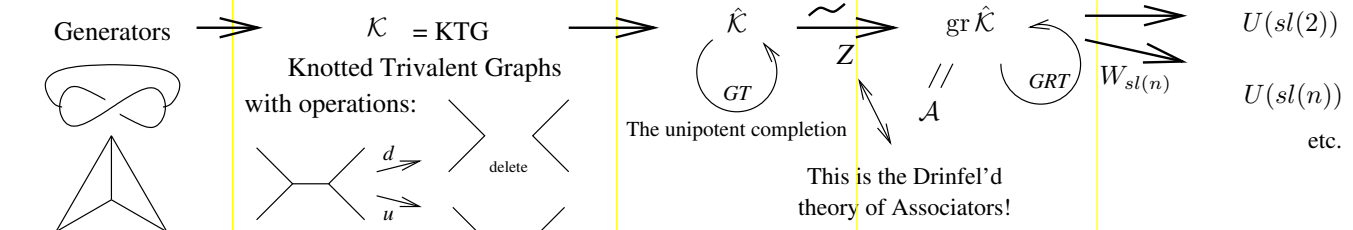
Night Time Dreams
about
Etingof - Kazhdan



Day Time Dreams
about Reshetikhin
- Turaev & quasi
triangular quasi
Hopf algebras



Reality
of associators, FT
invariants and
co-commutative
quasi-Hopf
algebras



Why should we care?

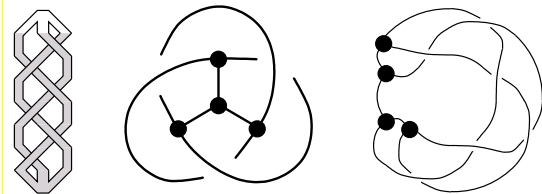
1. Usefulness!
2. Beauty!
3. Guidance!
4. Confidence!
5. Grothendieck-Teichmuller!



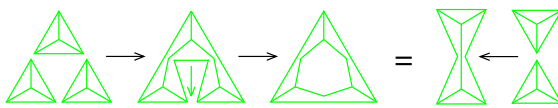
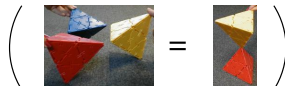
Fushimi-Inari

A La Carte Drawings

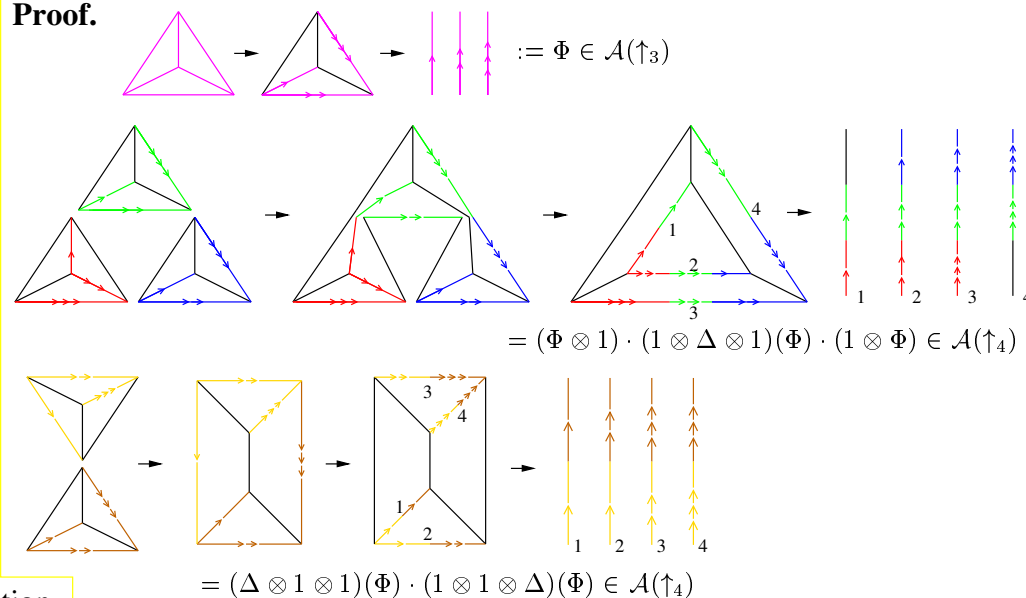
Knotted Trivalent Graphs (KTG's):



The 5-term relation:



Proof.



Claim. With $\Phi := Z(\Delta)$, the above relation is equivalent to the Drinfel'd's pentagon equation.

