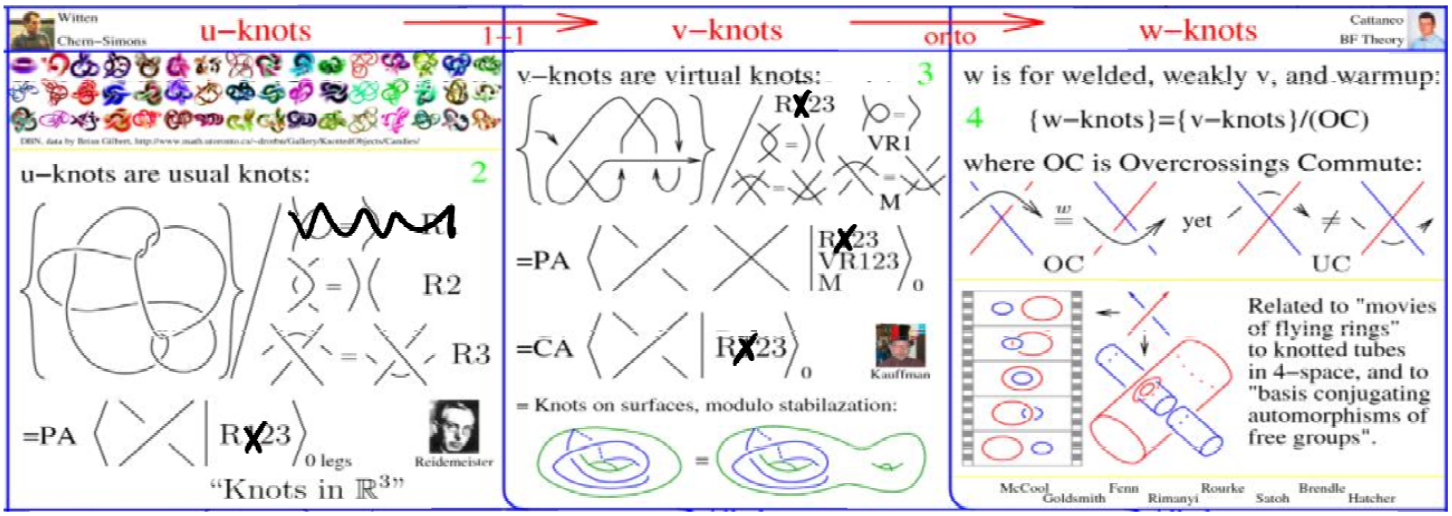

K^u → K^v → K^w

Expansion exists, Eg., using the Kontsevich integral.

No homomorphic expansion!

Z^u

wide open

Z^v

Homomorphic Z^v exists!

$\sigma_{ij} \to e^{a_{ij}}$

Z^w

$\mathcal{A}^u$ = $\langle \rangle / 4T$

$\mathcal{A}^v$ = $\langle \rangle / 6T$

$\mathcal{A}^w$ = $\langle \rangle / TC, \overrightarrow{4T}$

4T:

6T:

TC:

$\overrightarrow{4T}$:

τ^u

$U(\mathfrak{g})^{\otimes C}$

For any metrized f.d. Lie algebra $\mathfrak{g}$

τ^v

$U(\mathfrak{g}_+ \oplus \mathfrak{g}_-)^{\otimes C}$

For any f.d. Lie bialgebra $\mathfrak{g} = \mathfrak{g}_+ \oplus \mathfrak{g}_-$

τ^w

Today

$U(I\mathfrak{g})^{\otimes C}$

For any f.d. Lie algebra $\mathfrak{g}$

More at http://www.math.toronto.edu/~drorbn/Talks/Trieste-0905/