

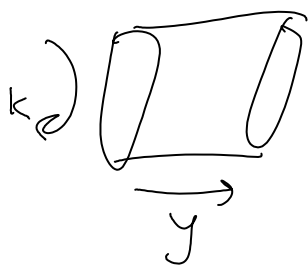
Mike Freedman on Quantum characteristic classes, really about "position, momentum, locality, stability."

$$f: \mathbb{R} \rightarrow \mathbb{C} \Rightarrow$$

$$\check{F}(y, k) := \sum_{x \in \mathbb{Z}} e^{ikx} f(y+x) \quad k \in [0, 2\pi)$$

$$\check{F}(l, k) = \dots = e^{-ikl} \check{F}(0, k)$$

$\Rightarrow \check{F}$ is a section of a line bundle on T^2 ,



with $c_1 = 1$.

.....
The "flow" of a ^{"controlled by \mathbb{Z} "} infinite unitary matrix is

conserved and is an integer.

"Controlled" means

$$u_{ij} = 0 \text{ if } |i-j| > l$$

.....
There is a similar integer associated with \mathbb{Z}^2 -controlled unitaries, though it looks more like a rotation number; there is a "boundary" of a \mathbb{Z}^2 -controlled unitary which is a \mathbb{Z} -controlled unitary, and a Green's Theorem holds for their flows.

Stefano Vidussi on twisted Alexander polynomials

and fibrations of 3-manifolds

My lesson: I have no idea why there should be a "twisted alexander polynomial", where is it coming from and what it may be good for.

Sergei Gukov

numbers

vector spaces

categories

$$n! \longrightarrow H^*(Fl_n) \longrightarrow \text{category of objects on the flag variety } Fl_n$$

Slava Krushkal: It is not known (?) if the whitehead double of the Borromean link is slice.

Constance Ludy: A definition of the Kochran-Orr-Teichner filtration of the concordance group in 4D terms, with some nilpotent quotients of π_1 appearing.

Question: Does this have anything to do with algebraic knot theory?