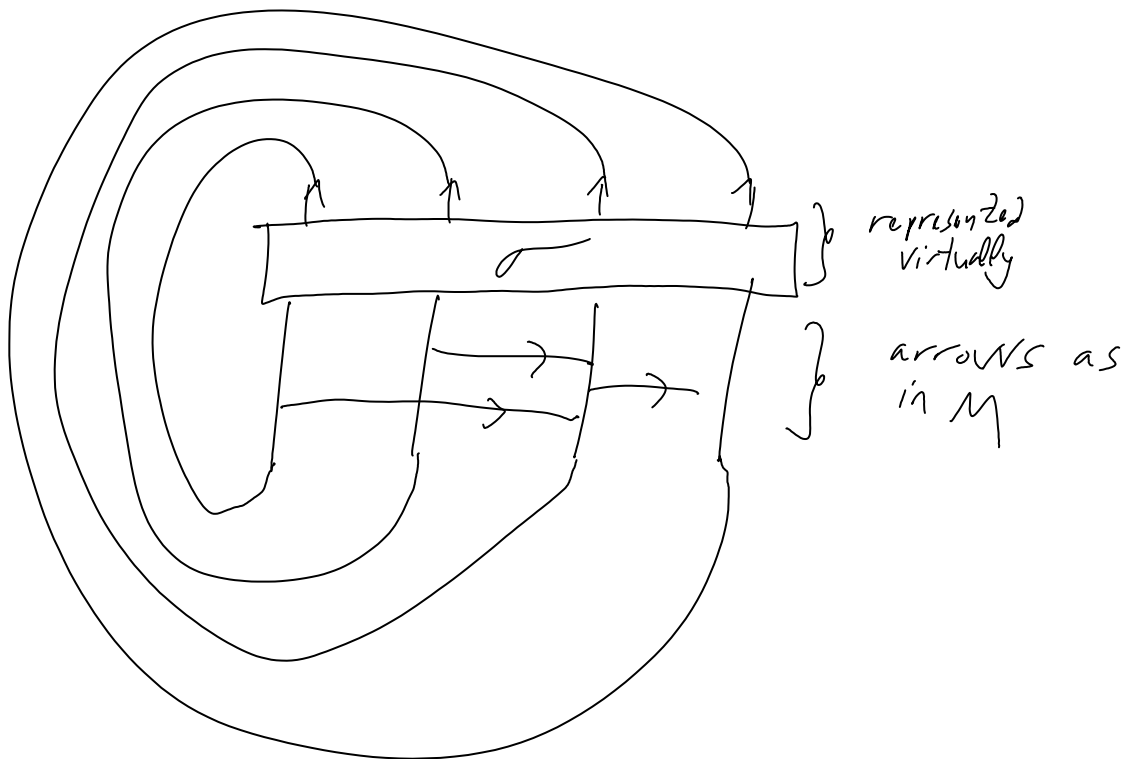


Virtual Grid Diagrams

September-30-08
5:07 PM

A virtual grid diagram is a pair
(permutation, intersection (0-1) matrix)
or
(σ , an integer matrix M)



Clearly, this maps surjectively on virtual knots, if only it is well defined.

Except it isn't....

Q Is there a Markov theory for the representation of v -knots as closures of descending v -braids?
(a descending v -braid is a v -braid in which the real crossings make it seem like the strands are "layered" - first always over all the rest, second

"layered" - first always over all the rest, second over all others, etc.)