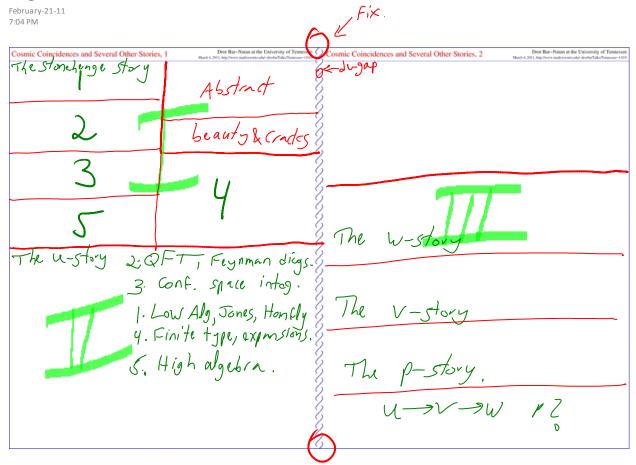
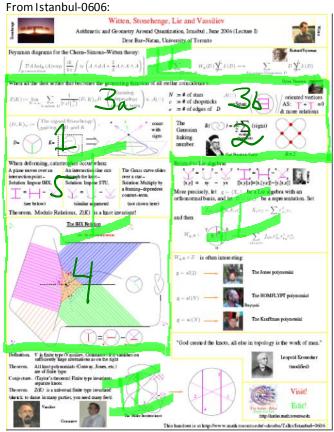
CC@UTK: Handout as of Feb 21





Many sources might be at UCB-000420

From UWO-100225 The u-v-w Story				0 0
	u-Knots	v-Knots	w-Knots	
Topology	Ordinary (<u>n</u> sual) knotted objects in 3D — braids, knots, links, tangles, knotted graphs, etc.	Virtual knotted objects — "algebraic" knotted objects, or "not specifi- cally embedded" knotted objects; knots drawn on a surface, modulo stabi- lization.	Ribbon knotted objects in 4D; "flying rings". Like v, but also with "overcrossings commute".	- Paralless
Combinatories	Chord diagrams and Jacobi diagrams, modulo $4T, STU, IHX$, etc.	Arrow diagrams and v-Jacobi diagrams, modulo $6T$ and various "directed" $STUs$ and $IHXs$, etc.	Like v, but also with "tails commute". Only "two in one out" internal vertices.	and the state of
High Algebra Low Algebra Combinatorics	Finite dimensional metrized Lie algebras, representations, and associated spaces.	Finite dimensional Lie bi-algebras, represen- tations, and associated spaces.		hish down
High Algebra	The Drinfel'd theory of associators.	Likely, quantum groups and the Etingof- Kazhdan theory of quantization of Lie bi-algebras.	The Kashiwara-Vergne-Alekseev-Torossian theory of convolutions on Lie groups and Lie algebras.	

Also put Beauty not cracks' image.