Shruthi Sridhar
Invariants of 2-knots
1-knot: S' S ? Embeddings
$2-k_{not}:S^2 \longrightarrow S^4$
Exi Ribbon 2-knot
$S^3 \cong T^2 \coprod_{X \to X^2} T^2 , S^4 \cong (\mathring{B}_X S') \coprod_{X} (S^2 \times \mathring{B}^2)$
→ "Spun knots"
Invariants
· m, (54-K)
· 1/2 (5 - K)
· M2 as a Z[M]-modules
Harder to find combinatorial invariants - new types of singularities (crossings -> intersecting planes when projecting to R3 { See slice knots}
Kibbon Invariants
· Unclasping
Not a complete set of invts ( )