

Gluing is what gluing does

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From <http://drorbn.net/bbs/show?shot=Katz-141224-125940.jpg>:

LMO Functor

$M \rightarrow$

$N \rightarrow$

T_n surgery

$LMO(M)$

$LMO(N)$

$G_n = \int_{\mathbb{R}^3} \langle X_{x,y} Z(T_n) \rangle$

BCH

BCH

pattern

$cA(x,y)$

M homology cylinder

$LMO(N) = LMO(N) \circ G_n$ functor $\in A_1^{\partial}(P)$

$\Rightarrow LMO(\mathbb{T} \times I) = \exp \left(\begin{matrix} y \\ x \end{matrix} \right)$

torus

$LMO(M, T) = LMO^S \cdot LMO^Y$

tangle struts

M homology cylinder $\Rightarrow \exp \left(\begin{matrix} y \\ x \end{matrix} \right) \cdot LMO^Y \in A_1^Y$

CH

pattern

$cA(x,y)$