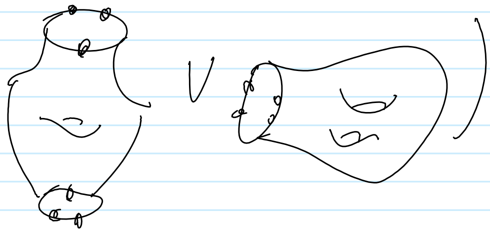
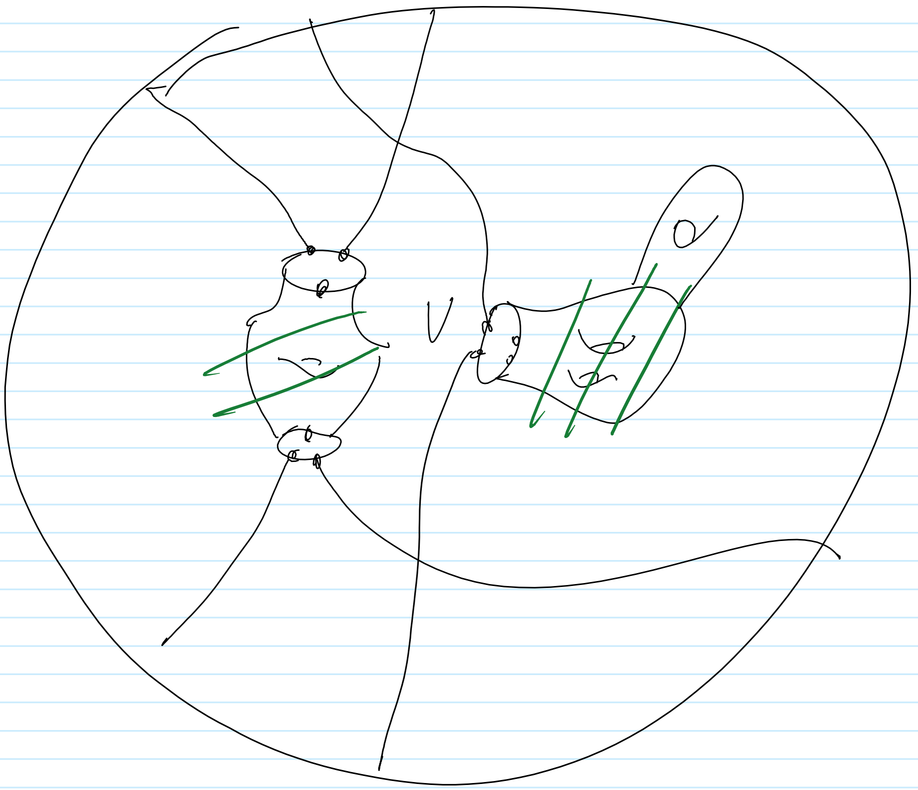
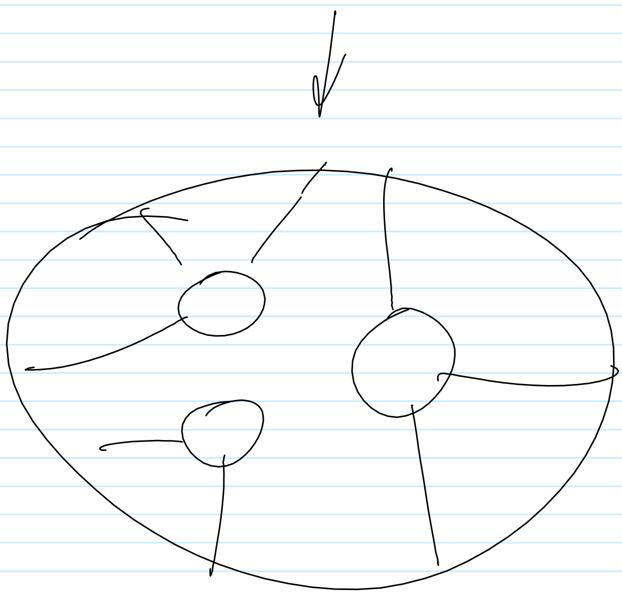
Conversation with Stavros, July 7, 2014

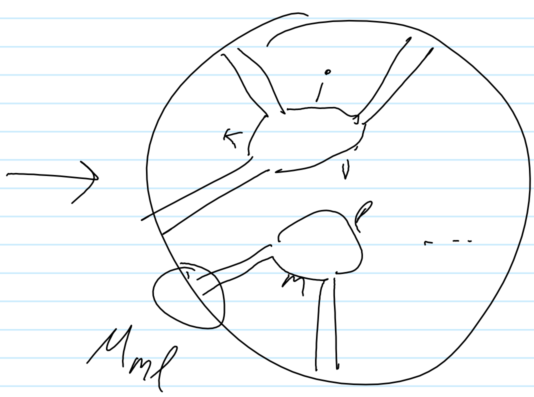
July-07-14 7:40 AM

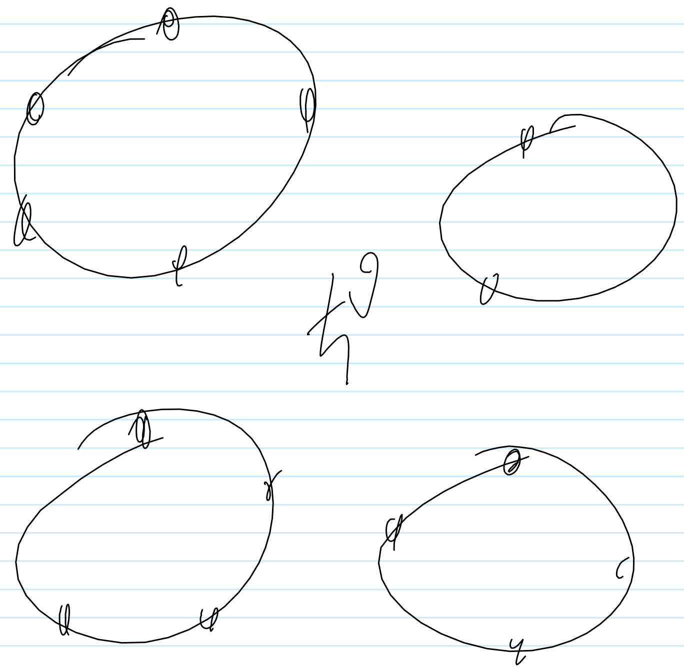
R is a rep of gl_n $\qquad X : \mathcal{D} \to A$

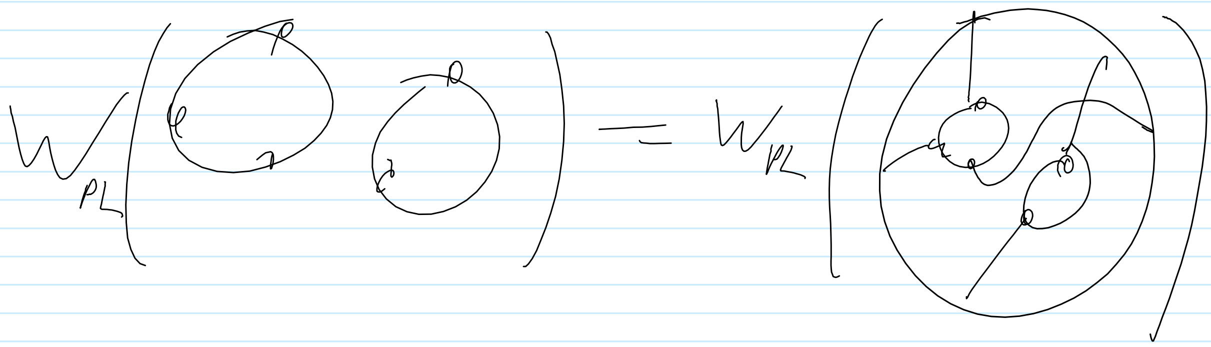
$W_R($  $) =$

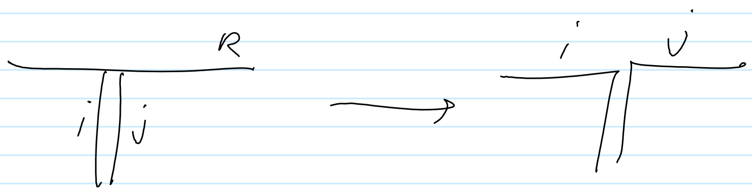


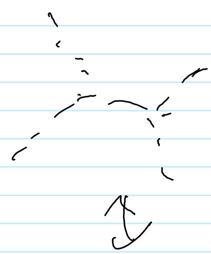












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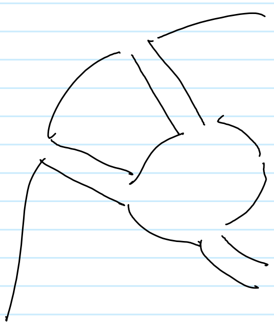
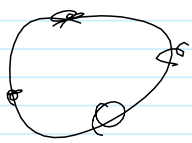
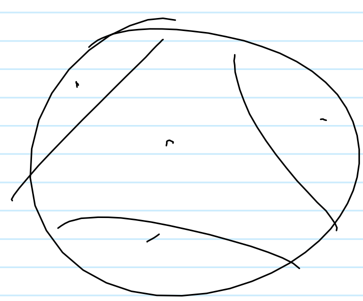
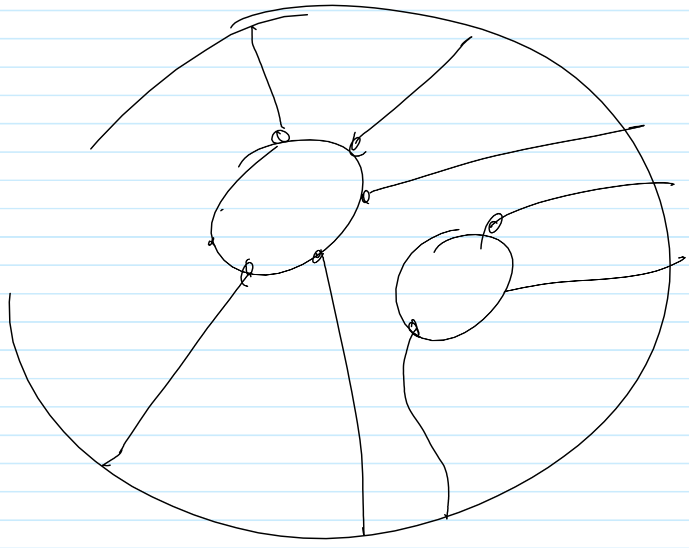


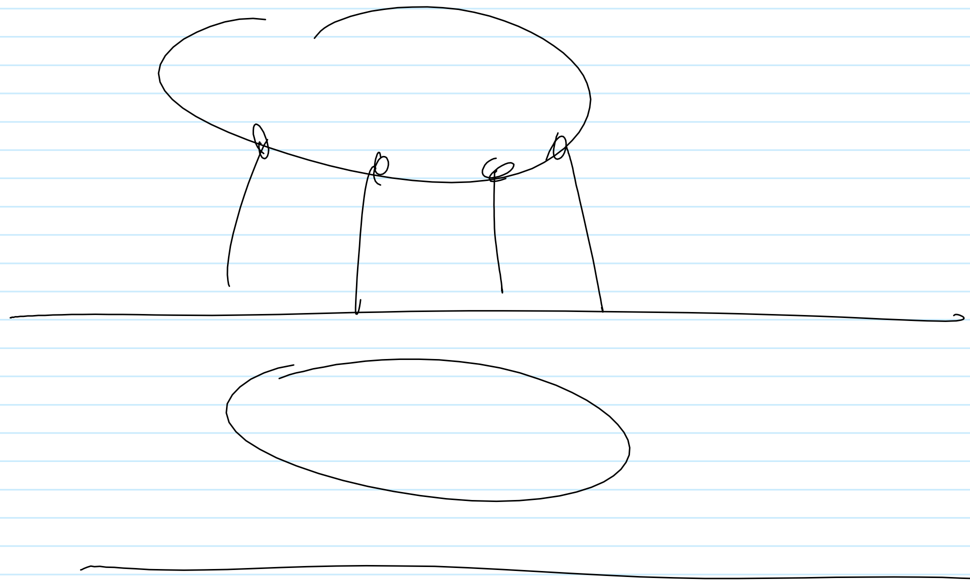
support only on $g=0$

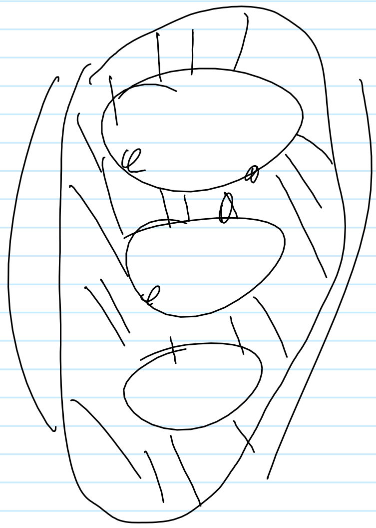
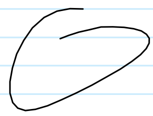


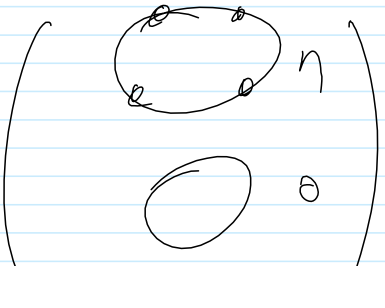




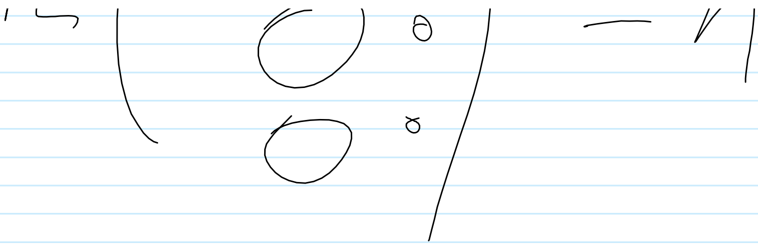
n, n, n_2, n_2



W_{PL}  $=$ 

W_{PL} 

$= n$

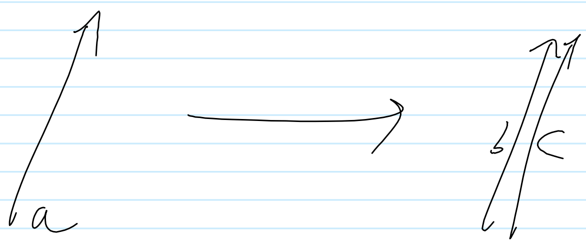


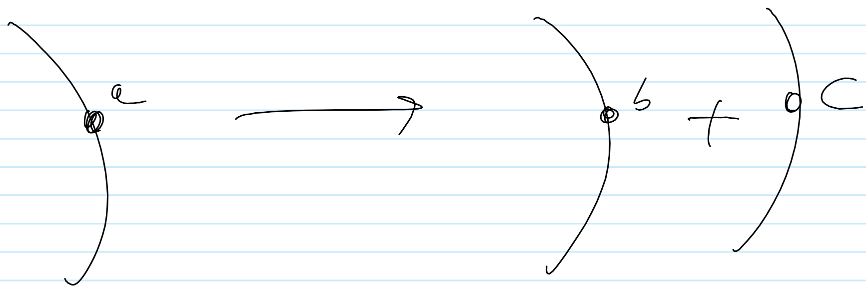
Let S be a finite set, $\mathcal{M}(S)$ be surfaces w/ markings in S.

0. Disjoint union.

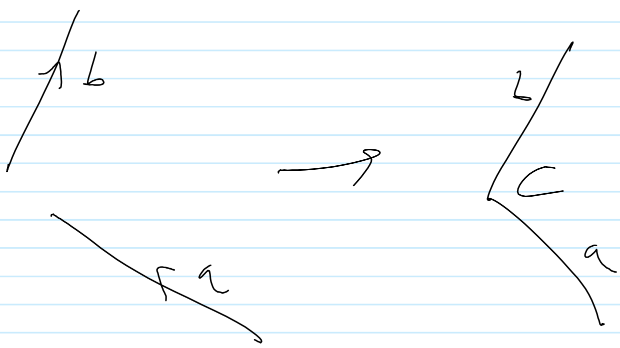
1. $\Delta^{a}_{bc} : \mathcal{M}(S) \longrightarrow \mathcal{M}((S \setminus a) \cup \{b, c\})$

assuming $a \in S$, $b, c \notin S \setminus a$





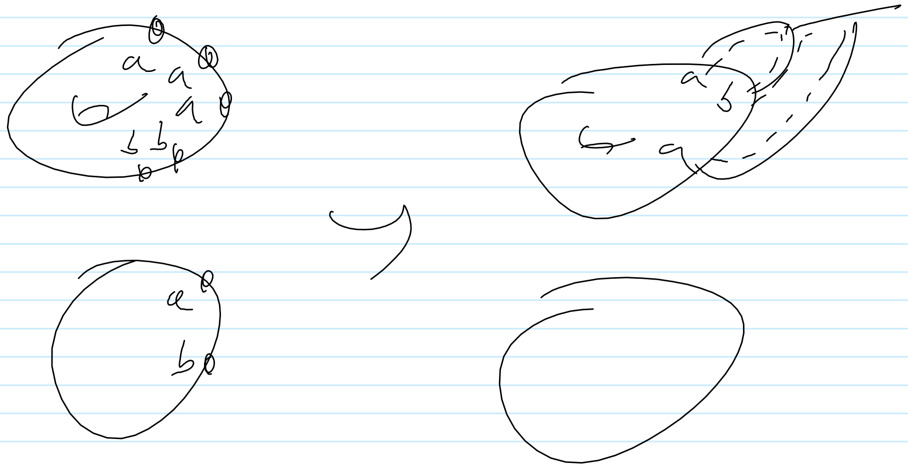
2.



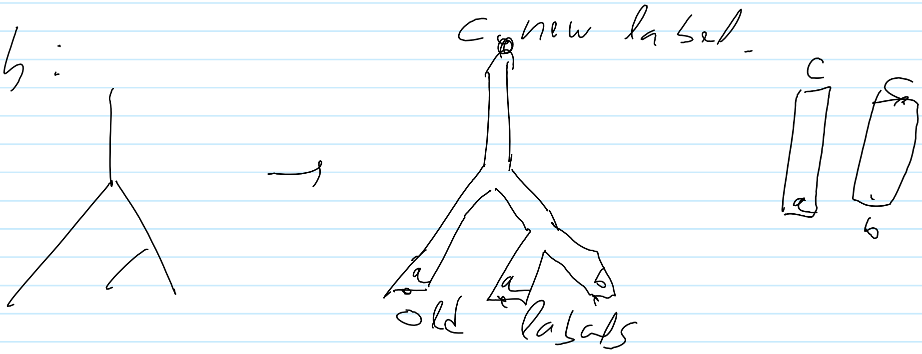
$$m_c^{ab}: M(S) \longrightarrow M((S\setminus\{a,b\})\cup\{c\})$$

$a,b\in S$, $\quad c\notin S\setminus\{a,b\}$.

Complicated:

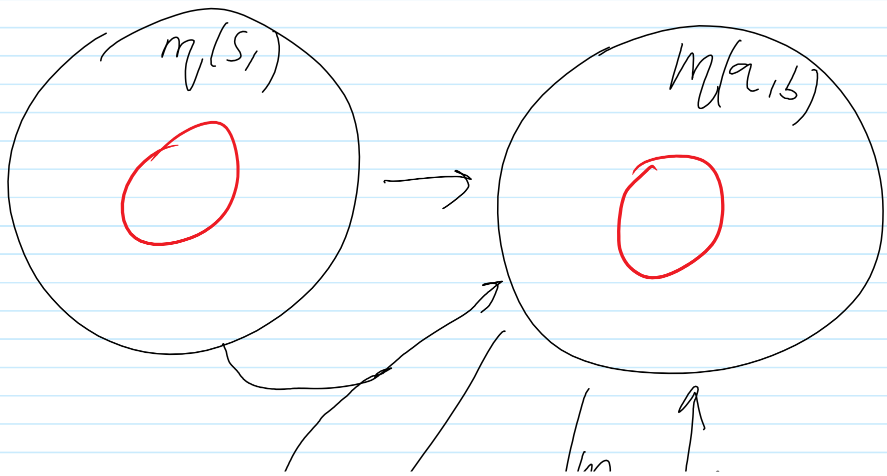


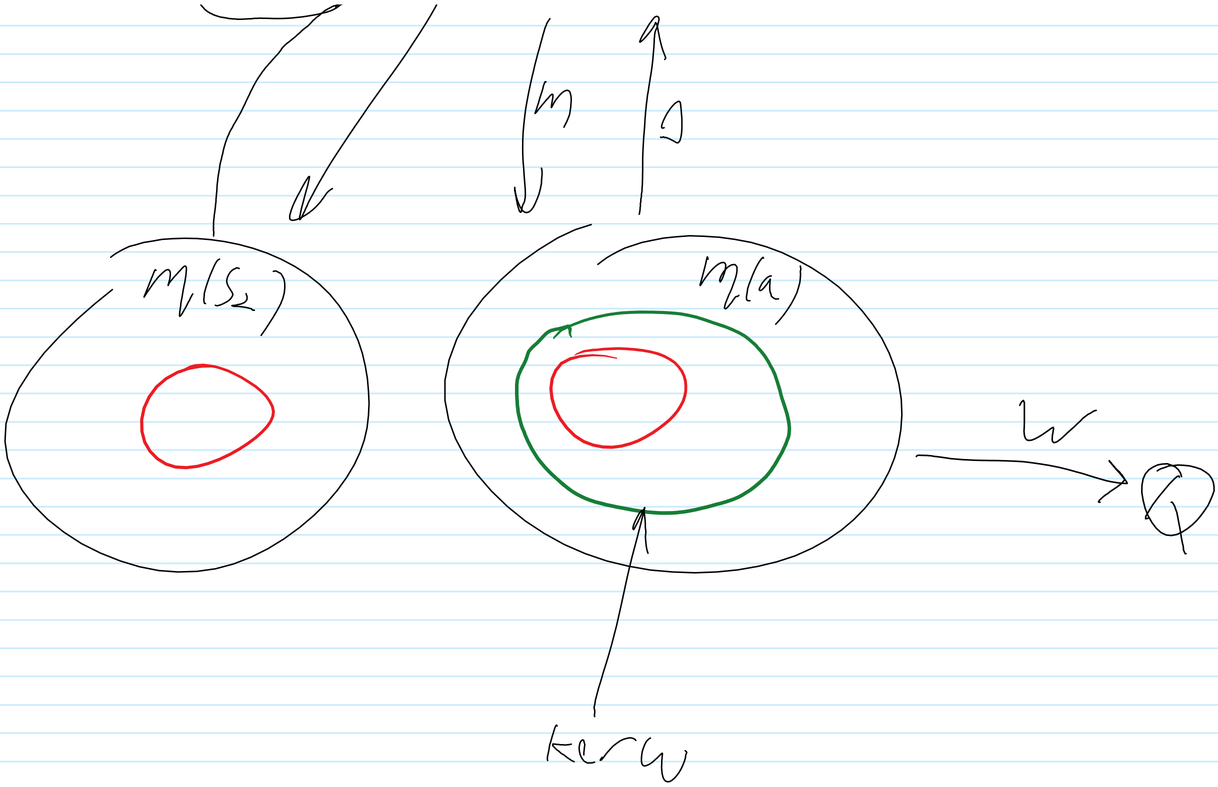
attach:



3. $\square: M_1(S) \longrightarrow M_1(S)\otimes M_1(S)$

~~Internal~~ Inner kernel of W:





rid is well defined?

See also http://drorbn.net/bbs/show?shot=Vo-140425-154938.jpg