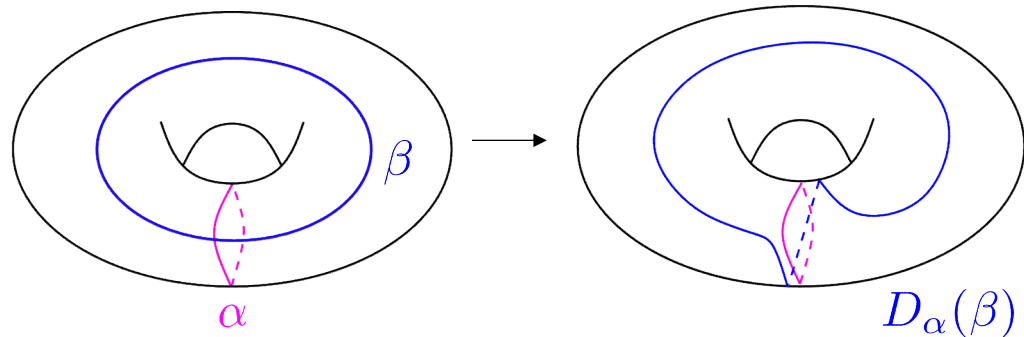
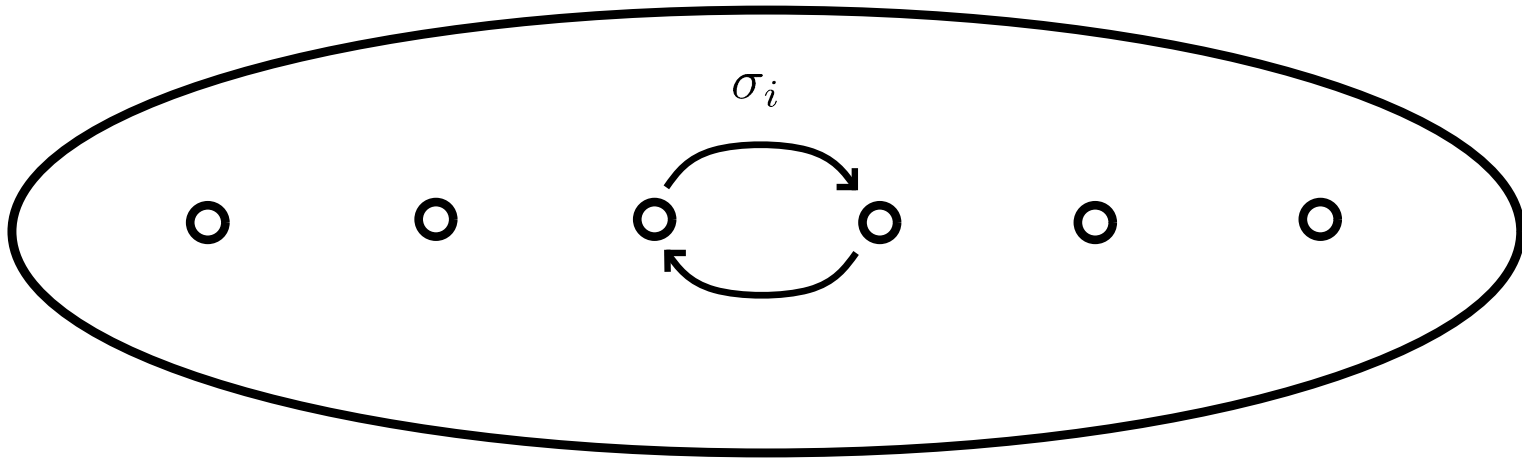


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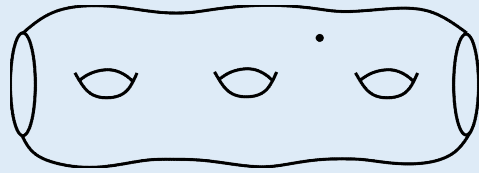
$\text{MCG}(S) = \text{Homeo}^+(S)/\text{isotopy}$
Studying surfaces and their
symmetries



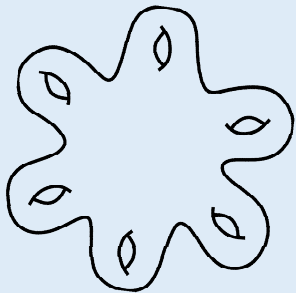
$$B_n = \text{MCG}(D_n)$$



$B_n/Z(B_n) \cong$ subgroup of $\text{MCG}(S_{0,n+1})$
fixing distinguished
puncture



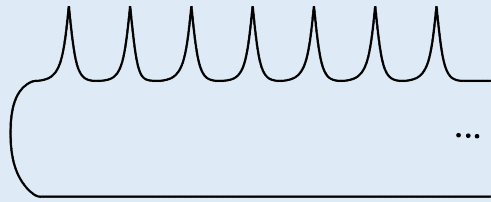
Finite-type
surfaces



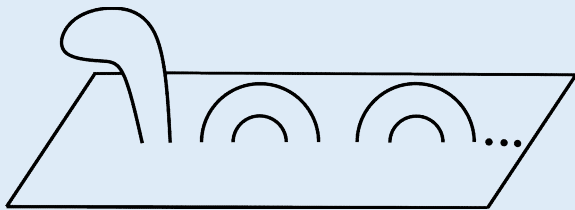
Q: (Farb) Are pseudo-Anosov mapping classes generic with respect to the word metric?

Q:(Brendle-Farb, Kassabov Lanier-Margalit, Margalit) How many elements are required to generate the mapping class group?

Q:(Fried) Which real numbers are stretch factors of pseudo-Anosov mapping classes?



Infinite-type
surfaces



Q: Is there a Nielsen-Thurston classification theorem?

Q: (Mann-Patel) What is the right combinatorial object to associate to a big mapping class group?

Q: When a graph associated to an infinite type surface is hyperbolic, what can we say about its boundary?