Hiroaki Nakamura on "Arithmetic and Topological Problems ir
Universal Monodromy Representations of Galois-Teichmuller
(Modular) Groups"

1. Topological motivation.

2. Some known/unknown results.

3. Remarks.

1. Dehn-Nielson isom:

Sov: Myn ~ Out(To,n)

maying chess

The state of the Weight 2 : [] Z; = 1)

Son maps a "herd" group into the out of an easy group.

Graded Lie version using the weight Filtration

 $T = T_{g,n} > T(1) > T(2) > \dots$

With TT(1)=[TT, TT]<2,... 2,7 tt(z)=[T, TT(1)] vtc.

likewise

 $M_{g,n} = M_{g,n}(0) \supset M_{g,n}(1) \supset ----$

Where

 $\forall x \in TT9, n(1)$

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