What's "head scattering"?
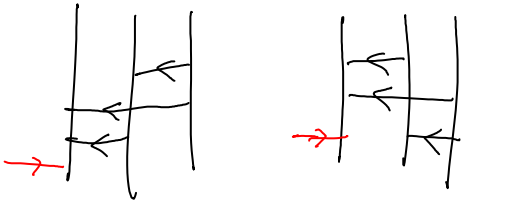
Is there a "projectivization" interpretation for head scattering?

$$\left(\begin{array}{c} \text{Something near "} H_1 \text{ of the universal} \\ \text{Abelian cover", or maybe} \\ \sim [\pi_1, \pi_1]^{ab} \end{array} \right)$$
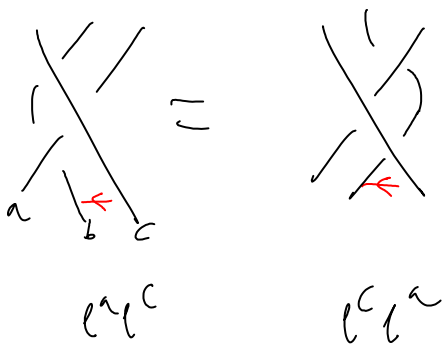
Will head scattering work with non-commutative hair?

Ney, for the hair itself needs to scatter, unless it is made to commute.

$e^a i c$ $e^c i a$

OC:

$=$ ✓
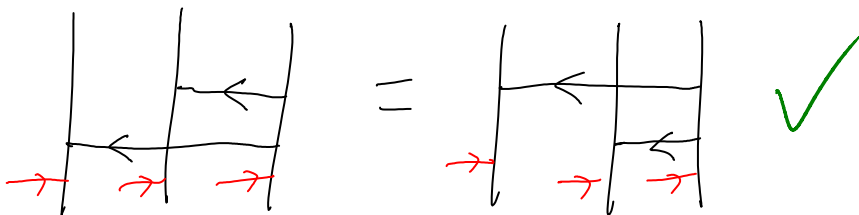
Can head scattering be recovered from tail scattering?
And in a similar vein, is there a morphism
$$Aut(F_n) \longrightarrow M_{n \times n} \quad \text{so that the composition}$$

$$wB_n \longrightarrow Aut(F_n) \longrightarrow M_{n \times n}$$

is the Burau/Gassner representation β/γ?
(Actually, it is more correct to ask whether given
a braid/w-braid B presented as an automorphism
of F_n, is it possible to recover $\beta(B)/\gamma(B)$
directly, without ever writing B as a product
of generators).

PS. I still don't know how to efficiently reconstruct a braid from the automorphism of F_n it induces.