A Brave, New, Sweeping Strategy

September-10-10
3:14 PM

$$\sum_j s_j X^{s_j}\, tr \begin{pmatrix} R \\ \ell_{n+1} \end{pmatrix}^{-1} \left[\begin{pmatrix} 1 & -1 \\ -\underset{a(t_j)}{\uparrow}\cdot o - & \underset{a(h_j)+1}{\uparrow}\cdot \end{pmatrix} j \right]$$

Can I go back from this to a sweeping strategy?

Need to work only up to a unit!

The trick: Lose track of orientations of short arrows.

part of the seed

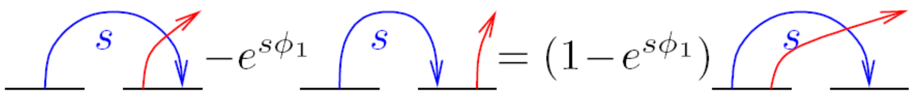
standard tail scattering

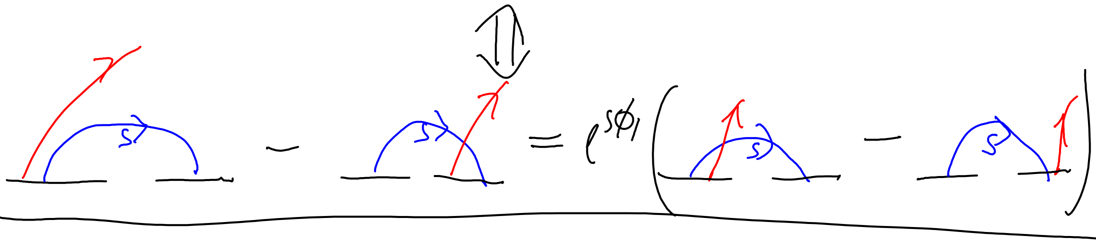
$$\sum_j s_j X^{s_j}\, tr \begin{pmatrix} R \\ \ell_{n+1} \end{pmatrix}^{-1} \left[\begin{pmatrix} 1 & -1 \\ -\underset{a(t_j)}{\uparrow}\cdot o - & \underset{a(h_j)+1}{\uparrow}\cdot \end{pmatrix} j \right]$$

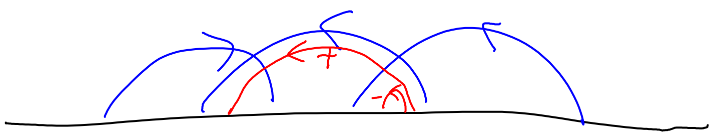
Mystery (A seed motion?)

The determined object

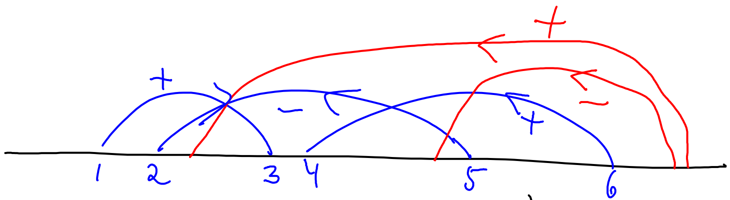
The seed







start



End

By explicit computation, these are not all equal.

$$\begin{pmatrix} I & 0 \\ 0 & 0 \end{pmatrix}$$

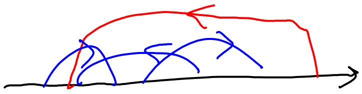
$$\begin{pmatrix} R \\ \ell_{n+1} \end{pmatrix}^{-1} = \left(\begin{array}{c|c} M^{-1} & M^{-1} r_{n+1} \\ \hline 0 & 1 \end{array} \right)$$

$$(\lambda_{ij}) = \Lambda = \begin{pmatrix} R \\ \ell_{n+1} \end{pmatrix}^{-1} \underbrace{\left(\begin{array}{c|c} I & 0 \\ \hline 0 & 0 \end{array} \right)}_{\text{Fishy.}} = \left(\begin{array}{c|c} M^{-1} & 0 \\ \hline 0 & 0 \end{array} \right)$$

So the ord is always 0.

HW For some simple G.D., say the above, print R & Λ.
(I know how to compute them, after all!)

Question Interpret $\Gamma = \begin{pmatrix} R \\ \ell_{n+1} \end{pmatrix}^{-1}$ in terms of Λ.
Might be the wrong question!

The "ℓ_{n+1}" stands for  $= 0$

Column j of Γ means "head at j".

$$\begin{pmatrix} R \\ \ell_{n+1} \end{pmatrix} \begin{pmatrix} \lambda_{11} & \cdots & \lambda_{1n} \\ \vdots & & \\ \lambda_{n+1,1} & \cdots & \lambda_{n+1,n} \end{pmatrix} = \left. \underbrace{\begin{pmatrix} & & \\ & & \\ D_L & \cdots & D_L \end{pmatrix}}_{n} \right\} n+1$$

Perhaps I need to start by having an interpretation of the X^s factors.