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 $\begin{pmatrix} A & B \\ C & U \end{pmatrix}_{I} \xrightarrow{a \in C_0} \begin{pmatrix} I & A^{-1}B \\ C & U \end{pmatrix} \xrightarrow{i} \begin{pmatrix} I & A^{-1}B \\ 0 & U - CA^{-1}B \end{pmatrix}$ . Roughly, det(A) is "det on her".  $-CA^{-1}B$  is "a public word of  $\begin{pmatrix} A & B \\ C & U \end{pmatrix}$ .

are tangle

equalities!

The dreaded slide moves, which go

up in crossing number, are parame-

trized by tangles!