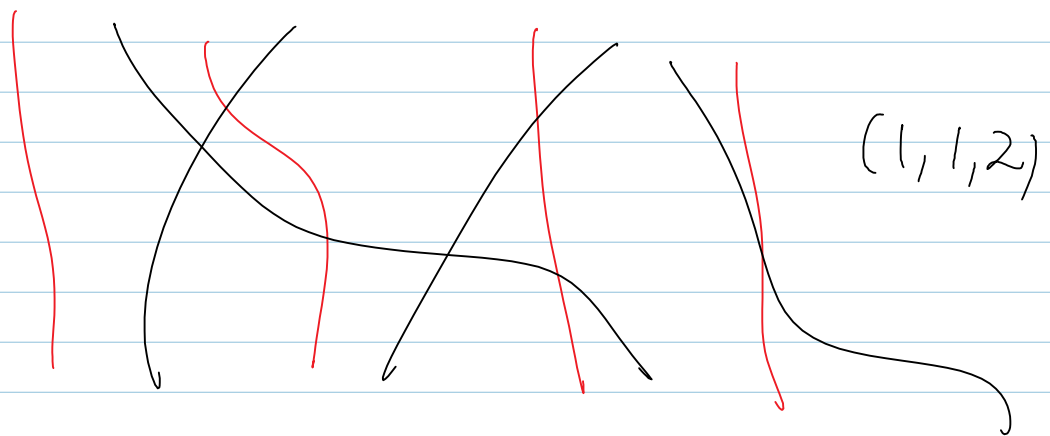


$Sl_2$ , TRA & Grassmannians.

$T_a^l$   $l$  red strands  
 $a$  black strands



$$X = Gr(a, l) = \{V \subset \mathbb{C}^l : \dim V = a\}$$

For  $\underline{a} = (a_1, \dots, a_n)$   $\sum a_i = a$

$$Y_{\underline{a}} = \left\{ \begin{matrix} v_1 \subset \dots \subset v_n \\ \dim v_i = i \end{matrix} : \begin{matrix} \text{if } i < a_1 + \dots + a_n \\ v_i \subset \mathbb{C}^m \end{matrix} \right\}$$