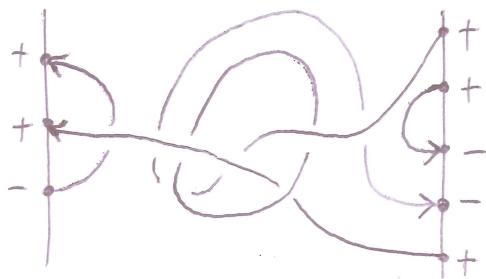
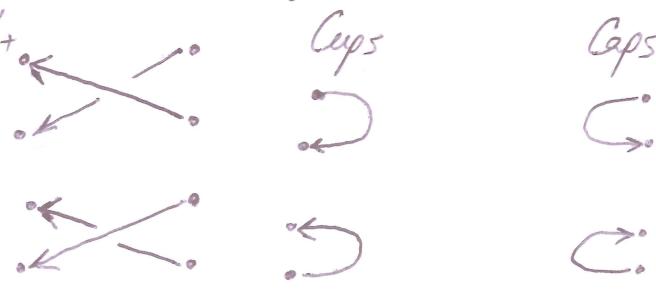


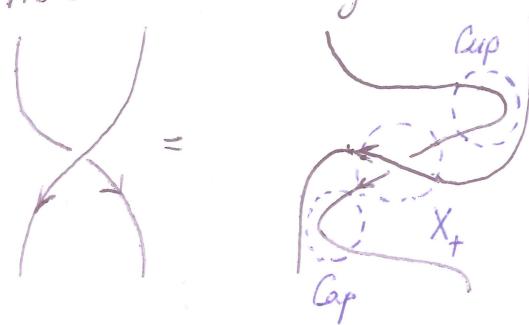
Pic 3.1: tangle diagram



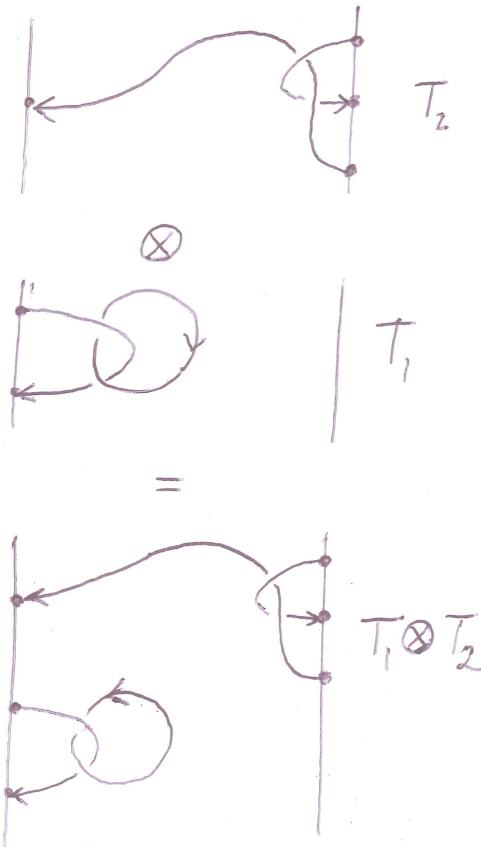
Picture 3: tangles Tangles  $X_{\pm}$ , caps and cups (Pic 3.2)



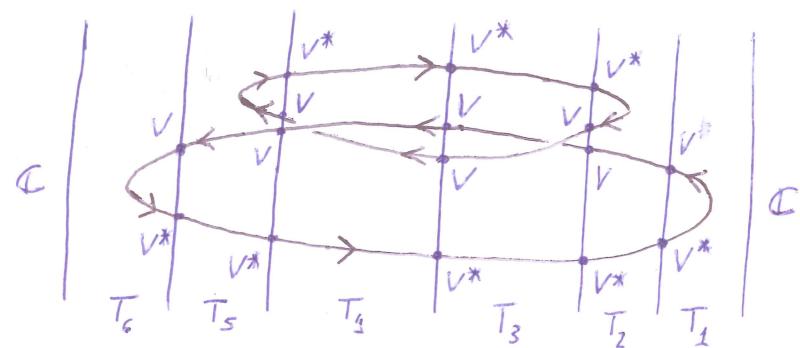
Pic 3.3: Other crossings



Pic 3.4: Tensor product



Pic 3.5



Pic 3.6: Homomorphisms  $\varphi$  for cups and caps

$$\begin{array}{ccc} \text{Cup} & \xrightarrow{\varphi} & \text{Cap} \\ \text{Cap} & \xrightarrow{\varphi} & \text{Cup} \end{array}$$