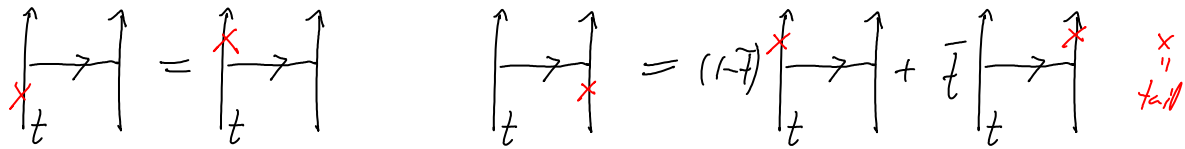


# X Scattering and Doubling

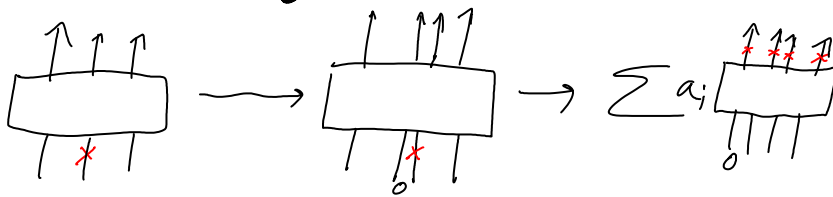
April-03-11  
1:58 PM

The X relations, brought from 2016-08 / [The XO Fav.](#)  
[The xo relations!](#)



$$D \in \mathcal{A}^w(\uparrow_n) \longrightarrow S(D) \in M_{\substack{(n+1) \times (n+1) \\ \text{rough}}}(\mathbb{Q}[h_0, \dots, h_n])$$

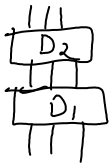
Now Precisely -



Aside. What exactly is the miracle which makes cabling work for tde?  
(See next page)

$$\text{so } D \in \mathcal{A}^w(\uparrow_n) \longrightarrow S(D) \in M_{(n+1) \times n}(\mathbb{Q}[h_0, \dots, h_n])$$

Composition:



$$D_1 \cdot D_2 \longrightarrow S(D_2)$$