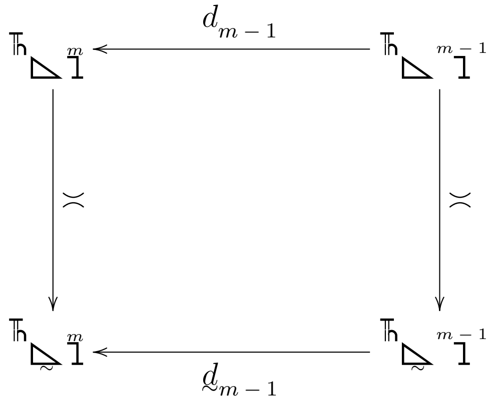
$$\mathbb{h}\triangle \daleth^{m} = \frac{{}_{1+m}\mathbb{h} \overset{9}{\longleftarrow} \daleth}{\begin{bmatrix} \mathbb{h}\times {}_{0}\mathbb{h} \\ + \\ \mathbb{h}\times {}_{m}\mathbb{h} \end{bmatrix} 9 = \mathbb{h} \ltimes \underbrace{\begin{bmatrix} {}_{0}\mathbb{h} \\ + \\ {}_{m}\mathbb{h} \end{bmatrix}} 9}$$

$$\mathbb{h}\underset{\sim}{\triangle} \daleth^{m} = \frac{{}_{m}\mathbb{h} \overset{4}{\longleftarrow} \daleth}{\begin{bmatrix} {}_{1}\mathbb{h} \\ + \\ 1 \\ + \\ {}_{m}\mathbb{h} \end{bmatrix} 4 = 0}$$

$$\mathbb{h}\triangle \daleth^{\mathbb{N}} = \sum_{m} \mathbb{h}\triangle \daleth^{m} \in \triangledown^{\mathbb{N}}\mathbb{K}$$



$$\begin{bmatrix} {}_{0}\mathbb{h} \\ + \\ {}_{m}\mathbb{h} \end{bmatrix} \underbrace{d9} \overset{\mathrm{ML}}{\underset{116}{=}} \sum_{0 \leqslant j \leqslant m} \overset{j}{(-1)} \begin{bmatrix} {}_{0}\mathbb{h} \\ + \\ {}_{j}\widehat{\mathbb{h}} \\ + \\ {}_{m}\mathbb{h} \end{bmatrix} 9$$

$$\overset{m+1}{(-1)} \begin{bmatrix} {}_{0}\mathbb{h} \\ + \\ {}_{m}\mathbb{h} \end{bmatrix} \underset{\sim}{d}\, 4 = {}_{0}\mathbb{h} \ltimes \begin{bmatrix} {}_{1}\mathbb{h} \\ + \\ {}_{m}\mathbb{h} \end{bmatrix} 4 + \overset{m+1}{(-1)} \begin{bmatrix} {}_{0}\mathbb{h} \\ + \\ {}_{m-1}\mathbb{h} \end{bmatrix} 4 - \sum_{j \in m} \overset{j}{(-1)} \begin{bmatrix} {}_{0}\mathbb{h} \\ + \\ {}_{j}\mathbb{h}\times {}_{j+1}\mathbb{h} \\ + \\ {}_{m}\mathbb{h} \end{bmatrix} 4$$

$$d \underbrace{\wr \triangle \daleth^{n}} = \underbrace{\wr \triangle \daleth^{n}} d$$

$$dd = 0$$

$$\tilde{\mathtt{l}} = {}^{\mathbb{h}}\triangle \mathtt{l}\ {}_{\mathbb{h}}\mathrm{mod}$$

$$\mathbb{h}\underbrace{\mathbb{h}' \ltimes \mathtt{1}} = \underbrace{\mathbb{h}\times\mathbb{h}'}\mathtt{1} - \mathbb{h}\ltimes\underbrace{\mathbb{h}'\mathtt{1}}$$

$$\Rightarrow {}^{\mathbb{h}}\triangle \overset{m}{\tilde{\mathtt{l}}} \underset{\asymp}{\xleftarrow{\jmath_m}} {}^{\mathbb{h}}\triangle^{m+1}\mathtt{l}$$

$$\tilde{d}_m \jmath_m = \jmath_{m+1} d_{m+1} \Rightarrow \jmath_{m+1} d_{m+1} d_m = \tilde{d}_m \jmath_m d_m = \tilde{d}_m \tilde{d}_{m-1} j_{m-1} \underset{\text{ind}}{=} 0$$