

collapse everything outside \mathcal{V}

(set distance to 'infinity')

\Rightarrow 1-pt compactification of \mathcal{V}

Thom space $\text{Th}(\mathcal{V}) = \mathcal{V}_+$

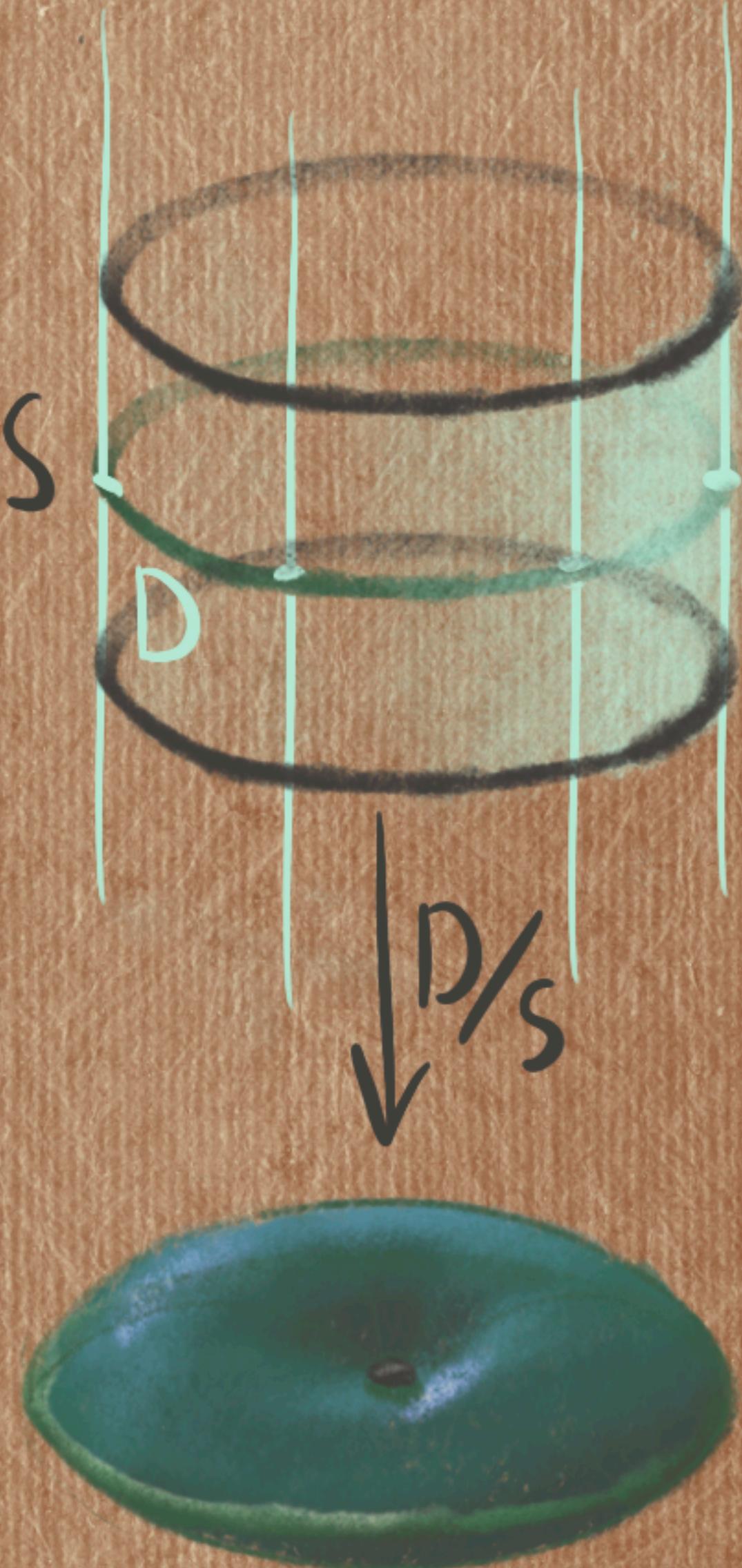
1-pt compactification is functorial:

$$\mathcal{V} \rightarrow \tilde{\mathcal{E}}^k$$

$$\text{Th}(\mathcal{V}) \rightarrow \text{Th}(\tilde{\mathcal{E}}^k) = \text{MO}(k)$$

$$\mathcal{V} \xrightarrow[\text{open}]{} \mathbb{R}^{n+k} \Rightarrow \mathbb{R}_{+}^{n+k} \rightarrow \mathcal{V}_+$$

\mathbb{S}^{n+k} $\text{Th}(\mathcal{V})$



Thom space

Pontryagin Thom construction

