General cobordism Theory

theory	spectra
cobordism	MO
oriented cobordism	MSO
spin cobordism	MSpin
framed cobordism	MFr
cowbordism	MOO

Cobordisms w/ extra structure

Tangental structures: lifts $M \to BO(k)$, $\nearrow B$, $\downarrow f$

e.g oriented cobordism: For $\partial W = M \sqcup N$,
demand W have orientation s.t $\partial W = M - N$

Framed cobordism: n pointwise-L.I sections of ν (i.e - trivialization)

$\Rightarrow$ tubular nbhd $E(\nu) = M \times D^n$, $Th(\nu) = M \times S^n$

pontryagin-Thom map: $\mathbb{R}^{n+k^+} \to M \times S^n \Rightarrow S^{n+k} \to S^n$
defines element of π_n^S !

$$\Omega_k^{Fr} \cong \pi_k^S \; !$$