Real Pre-Hilbert Space Complex Pre-Hilbert Space	Continuous function $f : \mathbb{I} \to \mathbb{R}$ Continuous function $f : \mathbb{D} \to \mathbb{C}$	$g = \partial^n/\partial x\ f$ $g = \partial^n/\partial z\ f$
Group, Groupoid, Category Abelian Group, Strict Twogroupoid, Strict Twocategory	Based (∞,0)-Category, (∞,0)-Category, (∞,1)-Category ∞-Space, (∞,0)-Space, (∞,1)-Space	$Y \cong \Omega^n X$ $Y \cong \Omega^n X$