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Adams Cobar Construction as a Cubical Complex

In this talk we are going to show that the cobar construction $\Omega\bar{C}_*(X)$ of the singular chain coalgebra $C_*(X)$ of a 1-connected space X, as it stands, coincides with the alternated chain complex of certain cubical monoidal set; moreower, Adams's DG algebra weak equivalence

$$\Omega\bar{C}_*(X) \to CU_*^N(\Omega X)$$

from the cobar construction to the normalized singular cubical chain complex of the loop space ΩX is a map of cubical abelian groups.
Consequently, the cobar construction carries all the structures, caused by this fact.
Namely, on the cobar construction all Steenrod chain cooperations $\{\bigtriangledown_i, i = 0, 1, 2, ...\}$ canonicaly appear and the Adams weak equivalence preserves them. Note that the cooperations $\bigtriangledown_0$ and $\bigtriangledown_1$ coincide with those constructed by Baues.