Motivic hypercohomology solutions in field theory II

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The determination of a hypercohomology as cohomology group where are defined the solutions of the field equations obeys to the triangulated derived categories that permit an scheme (triangle) commutative whose integrals are solutions of the field equations. The determination of this hypercohomology arises of the fact of that derived motivic category $\mathrm{DM}_{\mathrm{gm}}(k)$, which is of the motivic objects whose image is under $\mathrm{Spec}(k)$, that is to say, an equivalence of the underlying triangulated tensor categories, compatible with respective functors on $\mathrm{Sm}_k^{\mathrm{Op}}$. The geometrical motives will be risked with the moduli stack to holomorphic bundles. kewise, is analysed the special case where complexes $C = \mathbb{Q}(q)$, are obtained when cohomology groups of the isomorphism $H^p_{\acute{e}t}(X, F_{\acute{e}t}) \cong H^p_{\mathrm{Nis}}(X, F_{\mathrm{Nis}})$, can be vanished for $p > \dim(Y)$. We observe also the Beilinson-Soulé vanishing conjectures where we have the vanishing $H^p(F, \mathbb{Q}(q)) = 0$, if $p \leq 0$, and $q > 0$, which confirms the before established. Then survives a hypercohomology $\mathbb{H}^q(X, \mathbb{Q})$. Then their objects are in $\mathrm{Spec}(\mathrm{Sm}_k)$. Likewise for the complex Riemannian manifold the integrals of this hypercohomology are those whose functors image will be in $\mathrm{Spec}_H \mathrm{SymT}(\mathrm{OP}_{L_G}(D))$, which is the variety of opers on the formal disk D, or neighborhood of all point in a surface Σ.

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