title / ereview # Grammatical sheaf cohomology, its MODOS proof-assistant and WorkSchool 365 market for learning reviewers title / ereview

short / ereview The "double plus" definition of sheafification says that not-only the outer families-of-families are modulo the germ-equality, but-also the inner families are modulo the germ-equality. This outer-inner contrast is the hint that the "double plus" should be some inductive construction... that grammatical sheaf cohomology exists!

And the MODOS proof-assistant implements the cut-elimination confluence of this inductive construction where the decreasing measure of families-gluing is the restricting covering: | Gluing : (forall (G : Site) (v : Site(G → V | in sieveV)), PreSheaves(Restrict F (sievesW_ v) → Sheafified E)) ⊢ PreSheaves(Restrict F (Sum sievesV_ over sieveU) → Sheafified E). And the separateness-property is expressed via the congruence-conversions clauses. Then the generalization to cohomology beyond 0th (sheaf) is that the grammatical sieves could be programmed such to inductively store the (possibly incompatible) data along with its gluing-differentials: Any list of (semantically-equal) arrows in the grammatical sieve now stores both data (on the singleton lists) and differentials (on the exhaustive ordered listings), and the (inductive) differentials of the outer-gluing of inner-gluings correctly-compute the differentials of the total/sum gluing because ∂∂ = 0… Moreover, the generating topological site has its own cut-elimination confluence of arrow-terms, each arrow-term is covered by its arrow-subterms, and the algebra-operation of composition ⟦f⟧*⟦B⟧*⟦g⟧ → ⟦f ◦_B g⟧ is indeed geometric, is some sheaf condition. Possible applications are the constructive connecting-snake lemma for additive sheaves, or the constructive dependent homotopy types or the constructive geometry of quantum fields in physics.

This research is the fusion of prompts from two expert mathematicians: Kosta Dosen and Pierre Cartier. But should this research be immediately-conclusive and peer-reviewed only by experts in some publishing-market susceptible under falsifications/intoxications? And what sense is peer review of already-computer-verified mathematics? WorkSchool 365 is Your Market for Learning Reviewers. WorkSchool 365 is your education marketplace where the prompting authors pay to get peer reviews of their documents from any learning reviewers who pass the test quiz inside the prompting document, with shareable transcripts receipts of the school work. WorkSchool 365 documents are Word templates with business-logic automation and playable Coq scripts. WorkSchool 365 is free open-source code Microsoft Teams app in the web browser with authentication via only no-password email. Enroll today!

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Learning Reviewers Quiz Q1. The MODOS end-goal is:

(A) proof-assistant for the computational logic of inductive-constructive-sheafification.

(B) formalization of the correctness of the book "Categories for the Working Mathematician".

(C) writing pretty vertical formulas in latex.

Q1 ; 50 / quiz Click or tap here to enter text.

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*In Word, "Insert; Add-ins; WorkSchool 365" to **play this Coq script or sign-in for learning reviewers**.*

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