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Derived Non-Sense Learning Seminar

During the summer of 2018, I am participating in & organizing a learning seminar on the foundational aspects of Derived Algebraic Geometry.

The goal of the seminar will evolve as time goes on. Currently, our goal is to understand homological algebra from the perspective of stable infinity categories.

The seminar will be meeting weekly at And we will have discussion meetings on

Schedule

May 10 | Homological Algebra from the Perspective of Infinity Categories | Attilio Castano

References

Main References

- Gaitsgory and Rozenblyum - A Study in Derived Algebraic Geometry (link)
- Lurie - Higher Algebra (pdf)
- Groth - A short course on Infinity Categories (pdf)

Simplicial Sets

- Goerss and Jardine - Simplicial Homotopy Theory (pdf)
- Duggers - Sheaves and Homotopy Theory (pdf)
- Mathew - Dold-Kan Correspondence (pdf)
- Mathew - Simplicial Commutative Rings (pdf)
- Reihl - A Leisurely Introduction to Simplicial Sets (pdf)

Infinity Categories and Model Categories

- Duggers - Universal Homotopy Theories (pdf)

- Rezk - Stuff about Quasicategories (pdf)
- Lurie - On Infinity Topoi (pdf)
- Lurie - Higher Topos Theory (pdf)
- Dwayer and Spalinski - Homotopy Theories and Model Categories (pdf)
- Hovey - Model Categories (pdf)
- Joyal - Notes on Quasicategories (pdf)
- Cisinski - Higher Categories and Homotopical Algebra (pdf)

Miscellaneous

- Lurie - Derived Algebraic Geometry (pdf)
- Krause and Nikolaus - Lectures on THH (link)
- Arinkin and Gaitsgory - Singular Support and the Geometric Langands Conjecture (pdf)
- Gaitsgory and Rozenblyum - Crystals and D-Modules (pdf)
- Illusie - Complexe Cotangent et Deformations
- Beilinson Bernstein Deligne - Faisceaux Perverse
- Beilinson - p-adic Periods and derived de Rahm Cohomology (pdf)
- Lurie and Gaitsgory - Weil Conjectures for Function Fields (pdf)
- Bhatt Morrow Scholze - THH and Integral p-adic Hodge Theory (pdf)