

نظريه رسته و توپوس (Category and Topos Theory)

- S. Eilenberg and S. Mac Lane 'General Theory of Natural Equivalences' *Transactions Amer.Math.Soc.* **58**: 247, 1954
- S. Eilenberg and N. Steenrod ***Foundations of Algebraic Topology***, 1952
- S. Eilenberg and H. Cartan ***Homological Algebra***, 1956
- A. Grothendieck and J.L. Verdier ***Théorie des Topos et Cohomologie Etale des Schémas*** Lecture notes in mathematics. Vol. 269, 1972
- Current definition of ***Topos*** due to W. Lawvere and M. Tierney

تعاریف اصلی رسته

- Object, arrow (morphism), composition and its two properties

Examples

- Functors (covariant and contravariant)

Examples (especially in topology to algebra)

- Natural transformations

Examples

Axioms of Topos

- 1. Terminal object 1**
- 2. Pullbacks**
- 3. Exponential**
- 4. Sub-object classifier**
(Elementary topos)

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- 5. Axiom of Infinity**
 - 6. Axiom of Choice**

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