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2.3. Formal semantics on the basis of catastrophe theory: a comparison with logical semantics

2.4. Principles of interpretation; 2.5. Rene Thorn's list of semantic archetypes; 3. THE HEART OF CATASTROPHE THEORETIC SEMANTICS: THE SET OF SEMANTIC ARCHETYPES; 3.1. The semantic archetypes derivable from the zero-unfolding; 3.2. The semantic archetypes derivable from the fold; 3.3. The semantic archetypes derivable from the cusp; 3.3.1 The standard cusp (A+3); 3.3.2. The dual cusp (A-3); 3.3.3. Versal unfoldings of the standard cusp

3.3.4. Introducing higher archetypes: The archetype of bipolar differentiation

3.4 The semantic archetypes derivable from the swallowtail; 3.5 The semantic archetypes derivable from the butterfly; 3.5.1 Sketching the geometry of the standard butterfly (A+5); 3.5.2 Derivations on the basis of the perfect delay convention; 3.5.3. Derivations on the basis of the Maxwell convention; 3.5.4. Some semi-elementary archetypes derivable from the dual butterfly(A-5); 3.5.5. Summary of the archetypes derived from the butterfly; (1) Elementary archetypes.; (2) Semi-elementary archetypes

(3) Higher archetypes

3.6 Archetypes derivable from unfoldings with codimension > 4 and corank 1; 3.7 Semantic archetypes derivable from the compactified umbilics (D+4 D-4,D5); 4. APPLICATION OF CATASTROPHE THEORETIC SEMANTICS; 4.1. Dynamic inferences; 4.2 Word semantics; 4.3 Linguistic vagueness; 4.4. Compositional processes; 4.5. Application in neurolinguistics; 5. BEYOND CATASTROPHE THEORETIC SEMANTICS; 5.1. Beyond semantics: towards a dynamic theory of language; 5.2. Beyond Catastrophe Theory; FOOTNOTES; REFERENCES; INDEX

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## Sommario/riassunto

Rene Thom, the famous French mathematician and founder of catastrophe theory, considered linguistics an exemplary field for the application of his general morphology. It is surprising that physicists, chemists, biologists, psychologists and sociologists are all engaged in the field of catastrophe theory, but that there has been almost no echo from linguistics. Meanwhile linguistics has evolved in the direction of Rene Thom's intuitions about an integrated science of language and it has become a necessary task to review, update and elaborate the proposals made by Thom and to embed them in the f

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