

Denis MIEVILLE

## **La valse des ensembles. De la mathématique à la logique**

**Abstract :** This paper presents the results of a pertinent meditation of the author concerning the concept of „set” from the mathematical theory and its consequences in the logical theory of classes. After all, one of these consequences draws our attention: semantical antinomies. The starting point of these analyses originates in the famous work of Bertrand Russell and Alfred North Whitehead *Principia Mathematica* (1910-1913), authors who developed the well known paradox of „the class of the classes which do not include themselves as element“ and proposed as solution the known „theory of types”. The focus of our paper is the contribution of the Polish logician Stanislaw Lesniewski (1886-1939) to the solutioning of the russellian problem of antinomies by distinguishing between mereology, ontology and protothetic.

**Key words :** set, class, theory of types, semantical antinomy, mereology, ontology, protothetic.