

**Lorenz Demey**

KU Leuven

**Title:** The Logical Geometry of Russell's Theory of Definite Descriptions

**Abstract:** This talk will study Russell's theory of definite descriptions (TDD) from the perspective of logical geometry, i.e., by focusing on the various Aristotelian diagrams it gives rise to. Russell analyzed sentences of the form 'the A is B' in terms of existence, uniqueness and universality conditions. I first show that each definite description gives rise to four distinct formulas (depending on negation scope), which jointly constitute a classical square of opposition. Next, I discuss the interplay between the Aristotelian square for TDD and that for the categorical statements. After arguing that the latter is already implicitly present in the former, I integrate both into a single Aristotelian diagram, viz., a so-called 'Buridan octagon'. Finally, I study the exact role of the existence and uniqueness conditions within TDD, by introducing two new logical systems based on these conditions, and showing that this has drastic consequences for the aforementioned Buridan octagon.