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## **Descriptive imaginary morphology from mental imagery to scientific discourse\***

**Abstract:** The present paper intends to emphasize the link between descriptive imaginary and mental imagery, which could contribute to a better understanding of the dynamics of descriptive representations' morphology throughout the history of scientific theories in natural sciences. There are several difficulties regarding this effort, most of them regarding the fact that mental imagery is an internal, subjective and sometimes unconscious process. In spite of this, starting from the fact that mental imagery is often involved in the development of mental experiments used within the process of shaping new scientific theories, we tried to analyze the two major components of descriptive imaginary: the private one and the public one. Our effort was aimed at emphasizing the specific gradual transition from the individual development of descriptive representations to the social negotiation of their morphology within scientific communities. This way, the context of discovery is combined with the context of justification in the development of new descriptive and explanatory scenarios in natural sciences, with characteristics that influence at the same time the profile of scientific discourse.

**Keywords:** scientific imagination, mental imagery, discourse, morphology descriptive representation.

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