



## Invitation

Logic Colloquium

# Diego Frassinelli

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### *Data driven investigation of naturalness ascriptions in mathematics*

the talk will take place  
on **Monday, 06.02.23** at **15:15** in room **F426**

All interested are welcome to attend

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**Abstract:** In the philosophy of mathematics, naturalness ascriptions made by mathematicians are discussed as guidelines for concept formation. However, the ascriptions that are referred to are mostly single, anecdotal occurrences and it is questionable if this is strong enough evidence to support the conclusions made in the philosophical debate. In this talk we present a new project that aims at systematically gathering data about naturalness ascriptions in mathematics from large linguistic corpora and analysing it to get a reliable and empirically supported picture of where such ascriptions are made and what role they play in concept formation. For this study, we borrow methods from corpus linguistics to quantitatively describe the linguistic behaviour of such phenomena, and use distributional semantic approaches to investigate the nature and relationship of these ascriptions in large collections of text.

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Carolin Antos, Salma Kuhlmann  
Coordinators of the Logic Colloquium