

Bolzano's measurable numbers and the arithmetization of analysis

vendredi 18 février 2022 15:15 (45 minutes)

Section VII of Bolzano's *Reine Zahlenlehre* (RZ) introduces a special class of numbers, the measurable numbers, which constitute an early attempt at a rigorous treatment of the real number continuum. It remains to be settled, however, whether the RZ VII treatment is an instance of the 'arithmetization of analysis' Bolzano is often considered a pioneer of. In this talk I will offer a detailed analysis of Bolzano's RZ VII which leads me to conclude that Bolzano's measurable numbers cannot fully be described as an attempt at arithmetizing analysis –rather, they are still very much part of a traditional picture of mathematics as the science of quantity.

Auteur principal: BELLOMO, Anna (Universiteit van Amsterdam)

Orateur: BELLOMO, Anna (Universiteit van Amsterdam)