



# NITheCS

National Institute for  
Theoretical and Computational Sciences

COLLOQUIUM

## The life of Alexander Grothendieck and modern algebraic arithmetic geometry

Prof Bruno R. Chiarellotto (University of Padua, Italy)

**DATE:** Monday, 20 January 2025 | 16h00–17h00 SAST

**VENUES:**

- Neelsie Cinema, Stellenbosch University
- Online

--- A recording of the talk will be published on the NITheCS YouTube channel afterwards ---

### ABSTRACT

This talk will explore the remarkable and groundbreaking contributions of Alexander Grothendieck, one of the most influential mathematicians of the 20th century. I will delve into his new way of thinking geometry via algebra and number theory, as a motive played by different instruments.

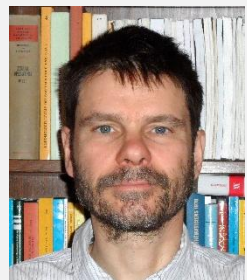
### BIOGRAPHY

Bruno R. Chiarellotto was born in Cornuda (TV, Italy). He is a Professor of Mathematics and Head of the Department of Mathematics at the University of Padua.

He completed his studies in Padua and obtained his PhD in 1989 from the University of Rome, with Zoghman Mebkhout and Maurizio Cornalba as his advisors. Following his doctorate, he undertook postdoctoral research at Paris Diderot University, Princeton University, and the University of California, Berkeley. In 1994, he was appointed professor at the University of Padua.

Over the years, Prof Chiarellotto has held the position of visiting professor at the University of Strasbourg, Pierre and Marie Curie University (Paris VI), Sorbonne Paris North University (Paris 13), University of Rennes, Hiroshima University, Tohoku University, University of Tokyo, and the Institut des Hautes Études Scientifiques (IHÉS) in Paris. He is a recipient of the JSPS (Japan Society for the Promotion of Science) grant for collaborative research in Japan. He has delivered seminars, participated in conferences, and engaged in short academic visits at numerous institutions worldwide. He has also led the Padova knot of the European Commission's ALGANT Master Program in algebra, geometry and number theory.

Prof Chiarellotto's research interests lie in arithmetic algebraic geometry, with a particular focus on the p-adic realizations of motives.



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