

INSTITUTSSEMINAR

On Tuesday, October 6, 2026, at 3:00 PM, in room Z 2073

Herrman Wilhelm

will give a talk on:

"The Non-Cancelling Intersections Conjecture".

Abstract:

The Non-Cancelling Intersections (NCI) conjecture of Amarilli, Monet and Suciu states that the union of a finite family of sets can always be built from its algebraically non-cancelling intersections using only disjoint unions and subset complements. It has been open since 2019 and is of interest because of its applications in probabilistic data-base theory and also because it is a beautiful combinatorial problem itself. In this talk, we look at several equivalent formulations of the conjecture, including one in the form of a game on points in the plane, and then present a complete resolution of the conjecture.

All interested parties are cordially invited.

Prof. Dr. Christoph Berkholz

Ilmenau, 10/02/2026