

RECITS Seminar

March 04th, 2026

From 10 a.m. to 11 a.m.

Seminar room, CAM building

Faculty of Mathematics, USTHB.

Speaker: Chahinaze DJADI.

Title. *On Wolstenholme-Type Congruences for Delannoy Triangle Coefficients*

Abstract.

Let $T(n,k)$ denote the (n,k) -th coefficient of the Delannoy triangle. We investigate congruence properties of these Delannoy coefficients and establish analogues of Wolstenholme's theorem in this combinatorial setting.

More precisely, we extend classical Wolstenholme-type congruences for binomial coefficients to Delannoy triangle coefficients and derive higher-order congruences modulo powers of primes.