

Jean-Morlet Chair - Conference
Arithmetic Statistics - Statistiques arithmétiques

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Title: *Structure constants of rings of finite rank and minimal free resolutions*

Abstract: We show how the minimal free resolution of a set of n points in general position in projective space of dimension $n - 2$ explicitly determines structure constants for a ring of rank n . This generalises previously known constructions of Levi-Delone-Faddeev and Bhargava in the cases $n = 3, 4, 5$.

This is a joint work with Tom Fisher.