



Faculty of Mathematics and Computer Science
The Weizmann Institute of Science

Distinguished Lecturer Series

Sponsored by the Arthur and Rochelle Belfer
Institute of Mathematics and Computer Science

Professor Pierre Deligne

Co-winner of the 2008 Wolf Prize in Mathematics

Institute for Advanced Study
Princeton

will speak on

Alternating Euler sums

Abstract

Given integers $s_i \geq 1$ and signs $\varepsilon_i = \pm 1$ ($1 \leq i \leq \ell$), the alternating Euler sum $\zeta(s_1, \dots, s_\ell; \varepsilon_1, \dots, \varepsilon_\ell)$ is

$$\sum \varepsilon_1^{n_1} \cdots \varepsilon_\ell^{n_\ell} / n_1^{s_1} \cdots n_\ell^{s_\ell}$$

(sum over $n_1 > \cdots > n_\ell > 0$). We know a lot, and ignore a lot, about the \mathbb{Q} -linear relations among such sums.

*The lecture will take place in the Lecture Hall, Room 1, Ziskind Building
on Sunday, June 1, 2008
at 11:00*