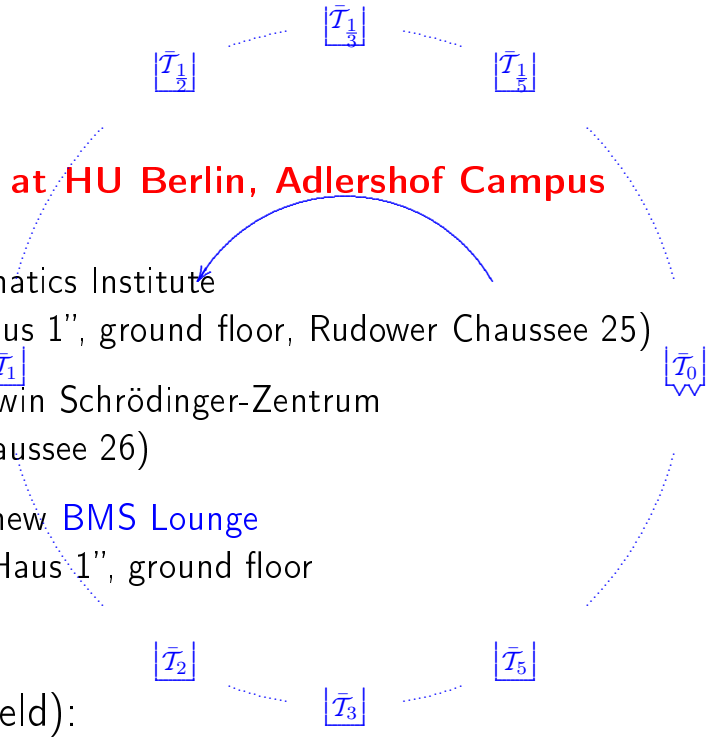
Berlin Mathematical School



BMS Fridays Colloquium

Friday, November 23, 2007, at HU Berlin, Adlershof Campus

Tea starts at 1 pm at the Mathematics Institute
(Johann von Neumann-Haus, "Haus 1", ground floor, Rudower Chaussee 25)

Colloquium at 2:00 pm, at the Erwin Schrödinger-Zentrum
(Lecture Hall 0'115, Rudower Chaussee 26)

. . . followed by dedication of the new BMS Lounge
at Johann von Neumann-Haus, "Haus 1", ground floor

Claus Michael Ringel (Bielefeld):

"Invariant subspaces of nilpotent operators"

Claus Michael Ringel, a distinguished algebraist from Bielefeld, in this lecture intends to shatter the opinion that "the basic problems of finite-dimensional linear algebra are solved."

His lecture treats triples (V, U, T), where V is a finite dimensional k-space, U a subspace of V and $T : V \to V$ a linear operator with $T^n = 0$ for some n, and such that $T(U) \subseteq U$. We will discuss the question whether it is possible to classify these triples. Obviously, the classification problem depends on n, and it will turn out that the decisive case is $n = 6$.

http://www.math-berlin.de

Günter M. Ziegler — Technische Universität Berlin
Jürg Kramer — Humboldt-Universität Berlin
Christof Schütte — Freie Universität Berlin