Einladung

zum Vortrag im Rahmen des **SFB Colloquiums** (Standort Linz), mit dem Titel

From Weyl's uniformity to strong uniformity

VORTRAGENDER: **Prof. Jozsef Beck**, Rutgers - State University of New Jersey
DATUM: Mittwoch, 24. Juni 2015
ZEIT: 13:45 Uhr
ORT: Science Park 1, MT 128, JKU Linz

Abstract:
The traditional theory of Uniform Distribution was basically started with the works of H. Weyl (see e.g. Weyl's criterion and its dozens of applications). A new direction, strong uniformity, was initiated by a well-known conjecture of Khinchin raised in 1923. Unfortunately, this beautiful conjecture turned out to be a "roadblock":
in 1970 Marstrand disproved Khinchin's strong uniformity conjecture, and this negative result discouraged the researchers from further investigation of the subject. About 4 years ago I proved the continuous version of Khinchin's conjecture, and since then I collected enough results to write a new book. There are many new concepts like "complexity-free and start-free strong uniformity" and "intrinsic entropy and entropy increase in uniform distribution".
In my lecture I will talk about these new results focusing on low dimensions.