Einladung

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

Numerical integration of Holder continuous, absolutely convergent Fourier series

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ORT: Science Park 2, SP2 416-1, JKU Linz

Abstract: We discuss numerical integration of Holder continuous, absolutely converging Fourier series using so-called Korobov p-sets. These point sets go back to definitions due to Korobov in the 1950s, and Hua and Wang in the 1970s. Since then, these sets have largely been ignored since a number of other constructions have been discovered which achieve a better convergence rate. However, it has recently been shown that the integration error in this case depends only polynomially on the dimension.