

# Distribution Properties of Generalized van der Corput Sequences

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For many years we have been involved in the construction and analysis of point sets and sequences with extremely well distribution properties low-discrepancy point sets and sequences. Within the last years we have intensively studied the methods of Faure concerning various types of discrepancy of generalized van der Corput sequences in arbitrary base  $b$ . We will recall the underlying ideas and methods, discuss our contributions and improvements, and give the necessary preparation and crossover to the subsequent talk of Florian Pausinger.