Course Name	Fractals
Contents and Objectives	<ul> <li><u>Content</u>:</li> <li>Hausdorff measure</li> <li>Topological dimension</li> <li>Hausdorff, box counting, Minkowski, and packing dimension</li> <li>Iterated function systems, attractors, and self-similarity</li> <li>Dimension of random sets</li> </ul>
	Objectives: Understanding of different notions of dimension and their mu- tual relationships, dimension calculation techniques, visualization of frac- tals
Teaching	This course consists of lectures and exercise classes.
	<ul> <li>Lecture: Fractals (4h/week)</li> <li>Exercise class: Fractals (2h/week)</li> </ul>
	This class can be taught remotely.
Prerequisites	Recommended: measure theory and Stochastics
Examination	Oral exam (30 minutes)
Credits	8 ECTS points
Frequency	This course is given at least every second year.
Workload	The estimated total working time for this course is 240 hours.
Duration	This course is given during one semester.