

Disordered systems schedule, 2025-26 / Fall

week	Monday 16:15-17:45	Monday 16:15-17:45	Lecturer
1	September 8, 2023	PART 1: STRUCTURAL DISORDER L1: Introduction, Percolation	Zarand
2	September 15, 2023	L2: Structural glasses I	Kormos
3	September 22, 2023	L3: Structural glasses II.	Kormos
4	September 29, 2023	L4: Surface roughening, KPZ equation	Kormos
5	October 6, 2023	PART 2: DISORDERED SPIN SYSTEMS L5: Hysteresis, Preisach and RF Ising Model	Zarand
6	October 13, 2023	L6: Hysteresis, Preisach and RF Ising Model	Zarand
7	October 20, 2023	L7: Spin glasses I: the Sherrington-Kirkpatrick model	Zarand
8	October 27, 2023	L8: Spin glasses II: Replicas and replica symmetry breaking	Zarand
9	November 3, 2023	PART 3: DISORDERED QUANTUM SYSTEMS L9: Anderson localization I: Anderson's theorem, mobility edge.	Zarand
10	November 10, 2023	L10: Anderson localization II: Scaling theory of localization	Zarand
11	November 17, 2023	L11: The Coulomb glass	Zarand
12	November 24, 2023	L12-13: Select topics: Quantum Hall Effect and Localization / Multifractals / Strong Disorder Fixed Points / Protein folding / Weak localization theory / Many-body localization / Random quantum circuits	Zarand
13	December 1, 2023	L12-13: Select topics: Quantum Hall Effect and Localization / Multifractals / Strong Disorder Fixed Points / Protein folding / Weak localization theory / Many-body localization / Random quantum circuits	Kormos
14	December 8, 2023	L12-13: Select topics: Quantum Hall Effect and Localization / Multifractals / Strong Disorder Fixed Points / Protein folding / Weak localization theory / Many-body localization / Random quantum circuits	Zarand or Kormos