

Contents

| | | |
|----------|---|------------|
| 1 | Lecture Notes on Birkhoff Billiards: Dynamics, Integrability and Spectral Rigidity | 1 |
| | Corentin Fierobe, Vadim Kaloshin, and Alfonso Sorrentino | |
| 2 | Introduction to Fatou Components in Holomorphic Dynamics | 59 |
| | Xavier Buff and Jasmin Raissy | |
| 3 | Homogeneous Dynamics and its Connection to Diophantine Approximation | 105 |
| | Manfred Einsiedler and Thomas Ward | |
| 4 | Effective Unique Ergodicity and Weak Mixing of Translation Flows | 161 |
| | Giovanni Forni | |