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Nota di contenuto	<p>""Contents""; ""Chapter 1. Introduction""; ""1.1. The model""; ""1.2. The container""; ""1.3. Billiard approximations""; ""Chapter 2. Statement of results""; ""2.1. Heavy disk in 'equilibrium' (linear motion)""; ""2.2. Heavy disk at rest (slow acceleration)""; ""2.3. Heavy disk of small size""; ""2.4. Comparison to previous works""; ""Chapter 3. Plan of the proofs""; ""3.1. General strategy""; ""3.2. Precise definitions""; ""3.3. Key technical results""; ""Chapter 4. Standard pairs and equidistribution""; ""4.1. Unstable vectors""; ""4.2. Unstable curves""</p> <p>""6.2. Structure of the proofs""""6.3. Short term moment estimates for V""; ""6.4. Moment estimatesa priori bounds""; ""6.5. Tightness""; ""6.6. Second moment""; ""6.7. Martingale property""; ""6.8. Transition to continuous time""; ""6.9. Uniqueness for stochastic differential equations""; ""Chapter 7. Fast slow particle""; ""Chapter 8. Small large particle""; ""Chapter 9. Open problems""; ""9.1. Collisions of the massive disk with the wall""; ""9.2. Longer time scales""; ""9.3. Stadia and the piston problem""; ""9.4. Finitely many particles""; ""9.5. Growing number of particles""</p> <p>""9.6. Particles of positive size""""Appendix A. Statistical properties of dispersing billiards""; ""A.1. Decay of correlations: overview""; ""A.2. Decay of correlations: extensions""; ""A.3. Large deviations""; ""A.4. Moderate deviations""; ""A.5. Nonsingularity of diffusion matrix""; ""A.6.</p>

Asymptotics of diffusion matrix"; "Appendix B. Growth and distortion
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