

Outline \rightarrow Introduction

I Prob, Info & Corr

§ 1. Finite joint distributions

§ 2. Information of finite distributions

§ 3. Correlation for finite distributions

4. Generalization & Further properties of Correlation

5. Information for general distributions

6. Example: Information decay in stochastic processes

7. Example: Conserv. of information in class. mechanics

II Quantum mechanics of Composite Systems Wave mechanics - Foundation

§ 1. Information in Quantum mechanics

§ 2. Composite systems - Relative states

§ 3. Canonical Correlation

§ 4. Nearest to eigenstates of correlation \rightarrow find marginal distrib.

V Abstract treatment of observation

§1 Formulation of the problem

§2 Preliminary deductions §3 Statistical deductions

§4 Remarks upon choice of §2 and measure

§5 Several observers

VI Supplementary Considerations

§1 Example - Von Neumann's

§2 Impl. of Atomic const of matter

§3 Remarks on actual meas problems

§4 (Bohr's Example)

VII Discussion

§1 Alternate Views

§1 Conclusion

Appendix

§1