4. Method of Types, Strong AEP and Universal Source Coding

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Contents

Types

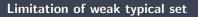
Method of Types

Strong Typicality

Universal Source Coding

1

Types





Types

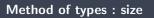
4

Types: size

Types: probability

Summary

Method of Types





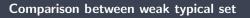
Summary



Strong typical set

Strong AEP

Strong typical set size



Summary

Universal Source Coding



Idea of universal source coding



References

- T. M. Cover and J. A. Thomas. Elements of Information Theory, Wiley, 2nd ed., 2006.
- Gallager (2008), Principles of Digital Communication, Cambridge University Press.
- Lecture notes for EE623: Information Theory (Fall 2024)