

Amenability: A Not-Particularly-Brief Introduction

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Outline

① Definitions and Motivation

Groups

If A is a set, and $\star: A \times A \rightarrow A$ is an operation such that

- $a \star (b \star c) = (a \star b) \star c$;
- there exists e_A such that $a \star e_A = e_A \star a = a$;
- for each a there exists a^{-1} such that $a \star a^{-1} = a^{-1} \star a = e_A$,

then we call A a group.

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We abbreviate $a \star b$ as ab .

σ -Algebras and Measures