

# Theta Functions, Kronecker Functions, and Bilinear Relations

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Riemann Surfaces  
in Mathematical Physics



# Outline

## 1. Abel's map

Necessary tools

Definition

## 2. Theta functions

Definition

Properties

## 3. Kronecker function

Definition

Fay Relation

## 4. Motivation beyond genus 1

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abel

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theta

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kronecker



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motivation