



## Langlands Program, the World's Biggest Math's Project

- **Dr. Langlands** won the **Abel Prize** in **2018**, a top honor in **mathematics**, for his groundbreaking work connecting representation theory to number theory.
  - The Program aims to link two distant areas of mathematics: **number theory** and **harmonic analysis**.
    - **Number theory** studies **numbers** and their **relationships, focusing on arithmetic**.
    - **Harmonic analysis** explores **periodic phenomena**, dealing with **continuous mathematical objects** such as **waves**, in contrast to the **discrete arithmetic of number theorists** who work with **integers**.

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