

Self-Introduction

■ Muhammaddaniya Sutwilai → Call me Daniel or Daniya

มุฮัมมัดดานิยา สุตวิไล

Self-Introduction

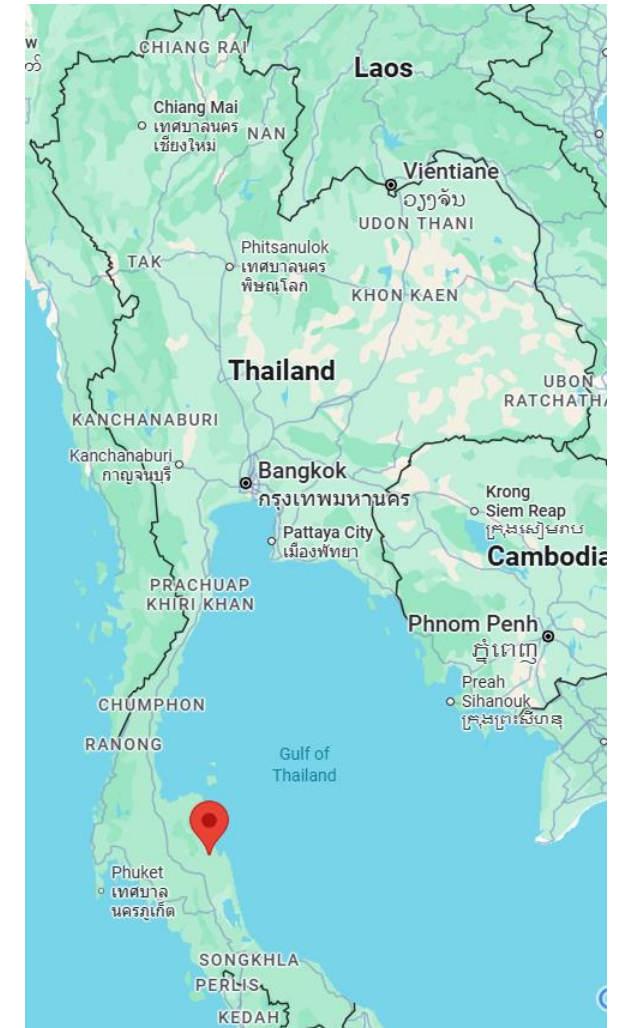
- Muhammaddaniya Sutwilai
- **Nakhon Si Thammarat, Thailand**



Kiriwong Village



Khanom Beach



Self-Introduction

- Muhammaddaniya Sutwilai
- Nakhon Si Thammarat, Thailand
- **Chulalongkorn University**



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- **Chulalongkorn University** ➡ **ICTP, Trieste, Italy**



Self-Introduction

- Muhammaddaniya Sutwilai
- Nakhon Si Thammarat, Thailand
- Chulalongkorn University
- **Interested in BSM Physics (i.e. Neutrino & Dark Matter) + EFTs**

Theory Group (Lattice QCD)



Theory Center in IPNS

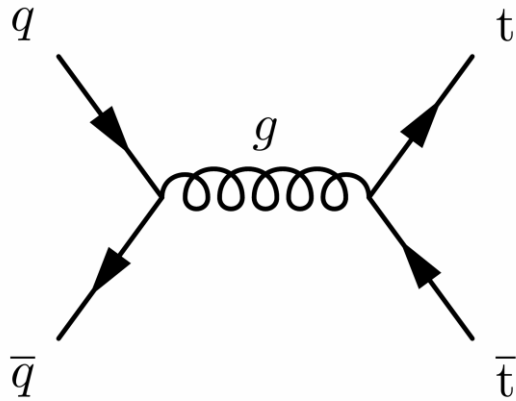


My desk

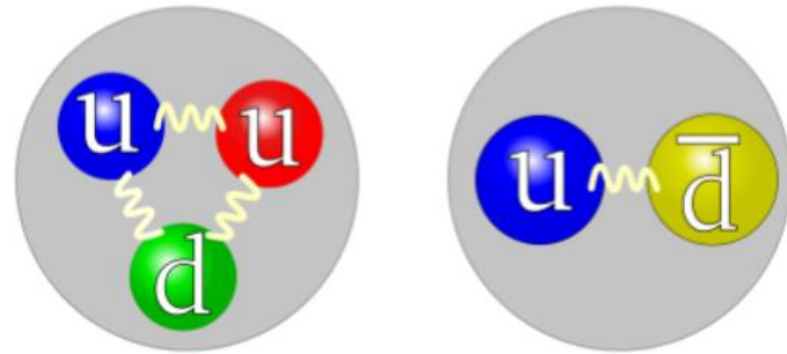
What is Lattice QCD?

Quantum Chromodynamics (QCD)

- Theoretical description for Strong interaction
- Quarks & Gluon carry a **color** quantum number



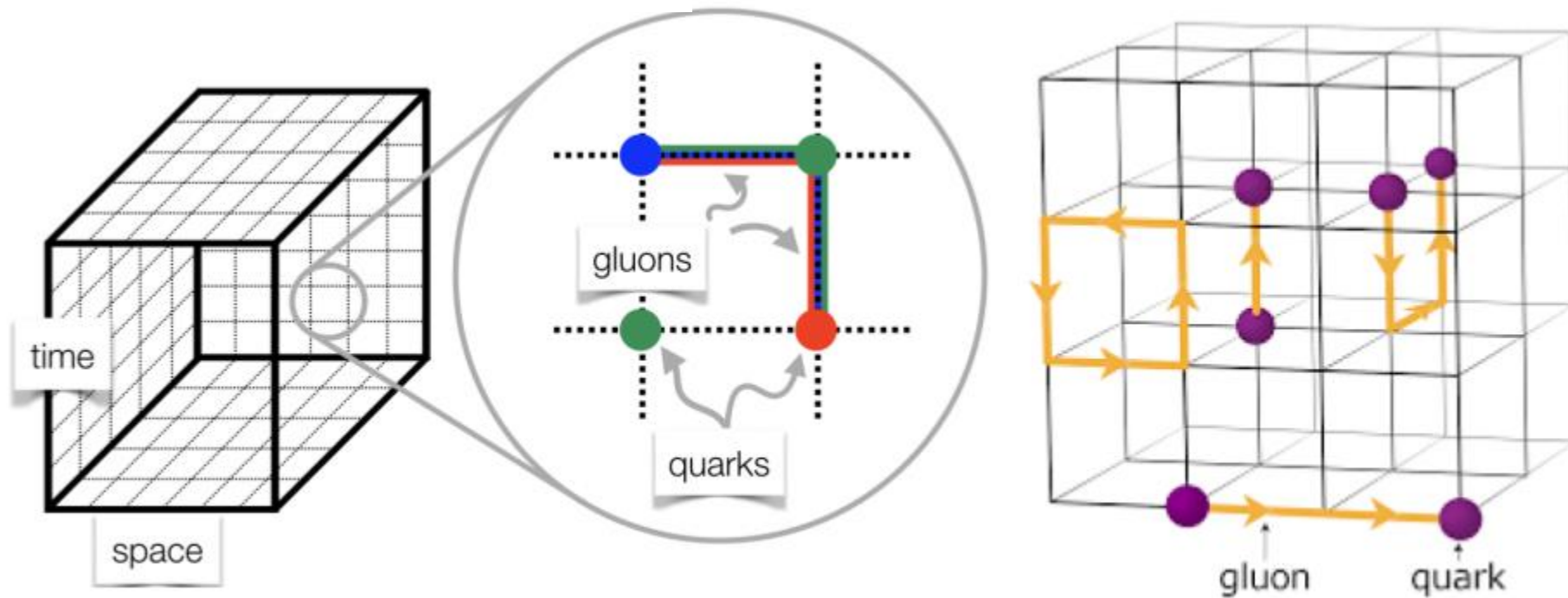
Asymptotic Freedom



Confinement

What is Lattice QCD?

$$Z = \int \mathcal{D}A_\mu \mathcal{D}\psi \mathcal{D}\bar{\psi} e^{-S} \longleftrightarrow \text{Observable from } Z[J]$$



What have I done so far?

- Simulation of Pure Gauge Theory (In Progress)
- Travel around Japan
- Tennis

