

# Subhankar Mishra Lab Weekly Talks

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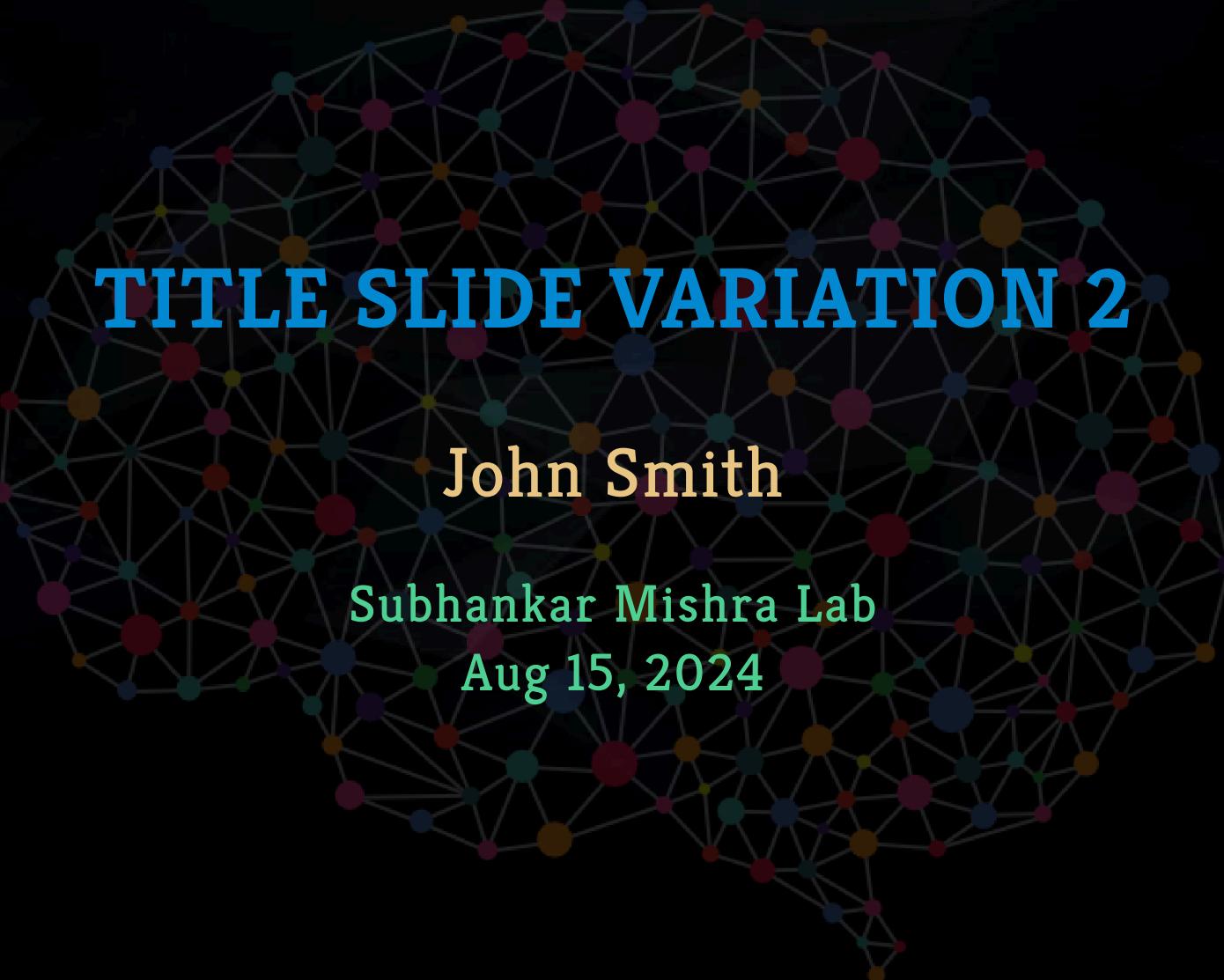


# Title Slide Variation 1

John Smith

Subhankar Mishra Lab  
Aug 15, 2024





# TITLE SLIDE VARIATION 2

John Smith

Subhankar Mishra Lab

Aug 15, 2024

# Outline / Table of Contents

- Text
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# Text

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# Bullet Points

- Point 1
- Point 2
  - Subpoint 1
  - Subpoint 2
    - Sub-subpoint 1
      - Sub-sub-subpoint 1
  - Subpoint 3
- Point 3
  - Subpoint 1

# Code

- Here's some code:

```
def hello_world():
    print("Hello, World!")
```

- Here's some inline code: `print("Hello, World!")`
- Here's some code in a different language:

```
function hello_world()
    println("Hello, World!")
end
```

# Equations

- Adjacency matrix:

$$A_{ij} = \begin{cases} 1, & \text{if } i \text{ and } j \text{ are connected} \\ 0, & \text{otherwise} \end{cases}$$

- Adjacency matrix for a SRG satisfies:

$$A^2 = (k - \mu)I + \mu J + (\lambda - \mu)A$$

$$JA = AJ = kA$$

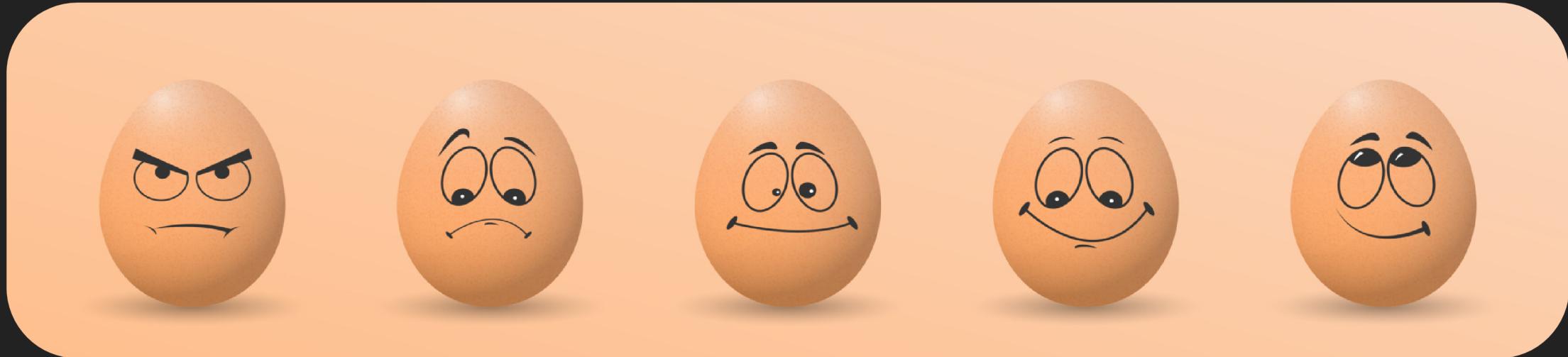
$$J^2 = NJ$$

- A graph with  $N$  vertices has an  $N \times N$  adjacency matrix. This problem is in the  $NP$  complexity class and is purported to be NP-Intermediate (if  $P \neq NP$ ).

# Tables

Heading 1	Heading 2	Heading 3
abc	cde	fgh
123	456	789

# Image Slide 1



# **Image Slide 2**



# Image Slide 3



# Image Slide 4



# Split Slide 1

- First point made here
- Second point made here
- Third point made here



# Split Slide 2

- First point made here
- Second point made here
- Third point made here



# References - 1

- [Link to GitHub repo for the code](#)
- Main papers:
  1. Rudinger et al; [Noninteracting multiparticle quantum random walks applied to the graph isomorphism problem for strongly regular graphs](#)
  2. Gamble et al; [Two-particle quantum walks applied to the graph isomorphism problem](#)

# References - 2

- Image sources:
  - Title Slide Variations 1 & 2
    - pxfuel
    - HiClipart
  - Image Slide 1 - Shutterstock
  - Image Slide 2 - Earth Stock photos by Vecteezy

*Questions?*

# Post-talk Questions

- Question 1
  - Some details
- Question 2
  - Some details

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