



# ANIRBAN KARAN

IFIC (CSIC-UV), Valencia, Spain



FIPs in the ALPs, Les Houches, France

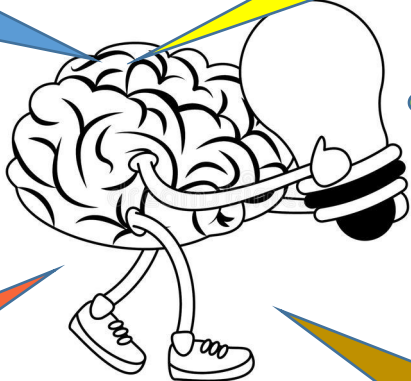
14-19 May, 2023

# Status of Particle Physics



Standard Model is great!!

*But it's not the full story !!!!*



We need New Physics ...



Where to look for the New Physics??

What kind of New Physics???



Model independent approach

Model dependent approach

## PhD : IMSc, Chennai, India.

- Flavour Physics
- New Physics & B-anomalies
- CP & CPT violation in meson mixing
- Anomalous magnetic moment of W
- And others



## 1st Postdoc : IIT, Hyderabad, India.

- ❖ Collider Physics & BSM Scenarios
- ❖ Radiation Amplitude Zero
- ❖ Leptoquarks
- ❖ Seesaw Models
- ❖ And others



## 2nd Postdoc : IFIC, Valencia, Spain.

- Flavour Physics & Extended Higgs
- Aligned two Higgs doublet models
- HEPfit
- And others



# Why am I here ?

## Recent Interests :

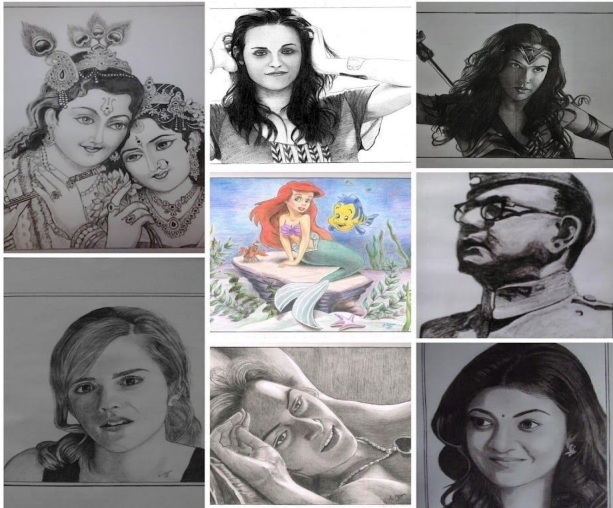
- i. Neutrino mass generation & scotogenic models
- ii. Dark matter phenomenology
- iii. Leptogenesis

*Soon to be on arXiv ...*

# Like to do :



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Poetry

Indian Music

Anything in Physics and Mathematics that is understandable to me

Thank you !!