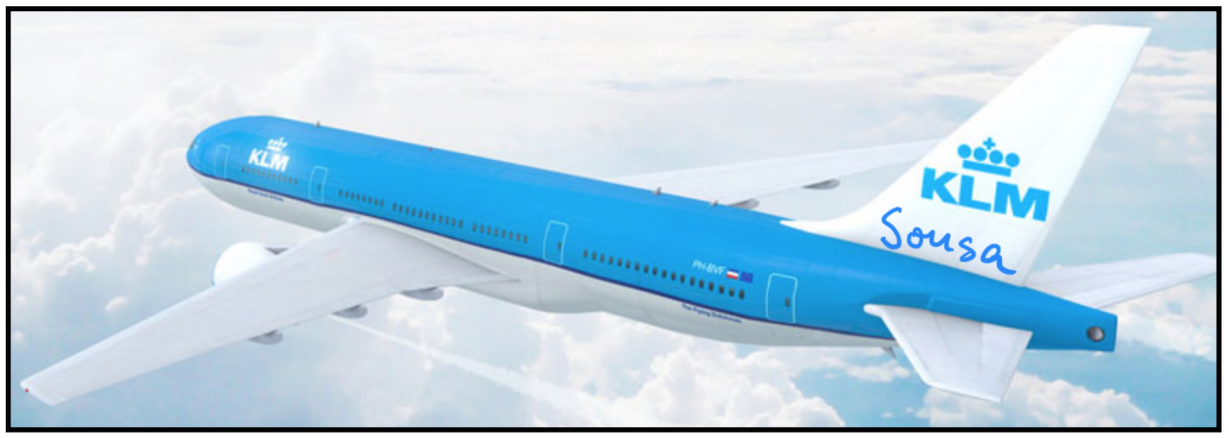
NF02: Sterile Neutrinos

- Conveners: Georgia Karagiorgi, Bryce Littlejohn, Pedro Machado, Alex Sousa
- Starting idea: focus on sterile neutrino oscillations and beyond
  - 'sterile neutrino oscillations' = experiments/theory exploring 3+1 or 3+N oscillation scenarios
  - 'and beyond' = other BSM that can explain short-baseline anomalies or alter dis/app probabilities neutrino decay, large extra dimensions, PMNS non-unitarity tests, NSI, hidden neutrinos, and so on
  - First category solidly in NF02 purview; need to iron out overlap on second category with NF03 (BSM)
- Can organize this category via experimental signature, or by source/baseline type:
  - Accelerator long-baseline experiments
  - Accelerator short-baseline experiments
  - Atmospheric experiments
  - MeV-scale sources: reactor and radiological
  - Cosmological and astrophysical probes



- Many different possible signatures to explore based on which source: μ/μbar dis; e/ebar dis; e/ebar app; NC dis; and so on.
- Many different L/E behaviors to consider based on the BSM physics being probed