LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS
*partículas e tecnologia*

# Competence Center - Big Data
# 8th Informal Meeting
# 5th April 2021

# Suggested talking points

- Current DS/ML/AI interests and curiosity
- Format and scope of the future of future regular Big Data informal meetings
  - Journal club, seminars, just discussion, etc
  - What do you want out of the Competence Centre
- Intest and demand for topical tutorials for LIP researchers
  - ML basics, Graph Neural Nets, etc

We are not pre-allocating any time for any of these,  they are discussion starters

# My own current Big Data interests

- Anomaly detection as a generic new physics discriminant
  - Auto-Encoders, Deep-SVDD, etc
- ML on low level detector data
  - CNN, GNN, Transformers, etc
- ML for BSM model validation
  - Oversampling techniques, Generative Models

# Format and scope of these meetings

- Monthly?
- Keeping the journal club?
- Seminars?
- ML brainstorming and Q&A?

# Intest and demand for topical tutorials for LIP researchers

- I would like to learn more about Graph Neural Networks
- I can help with many other topics in ML