

Réunion Hebdo LLR - ML

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# Plan

- Collaboration Watchmal
  - Performances reproduction
  - Project fusion
- LLR Internal
  - ML (general)
  - Grant & Skynet
  - Framework
- Formation (paused)
  - GNN
  - Physics

# Watchmal Collaboration

# Watchmal Collaboration - Performances reproduction

Bilan : Aborted

Reason : No available performance from Watchmal CNN for an HK geometry with 20" pmt.

→ Decision : Get the performances ourselves from their code. Fastest and simplest solution, also useful for the future (see Fusion)

# Watchmal Collaboration - Projects Fusion

Bilan : In progress

3 programs :

- Grant
- Skynet
- DataTools & Watchmal

→ Decision : Separation of Post-WCSim-simulation processing & Models

Conservation of Watchmal for the models (integration of skynet and grant)

Development of a unify program for post-wcsim-simulation processing

# Watchmal Collaboration - Projects Fusion

Hands-on :

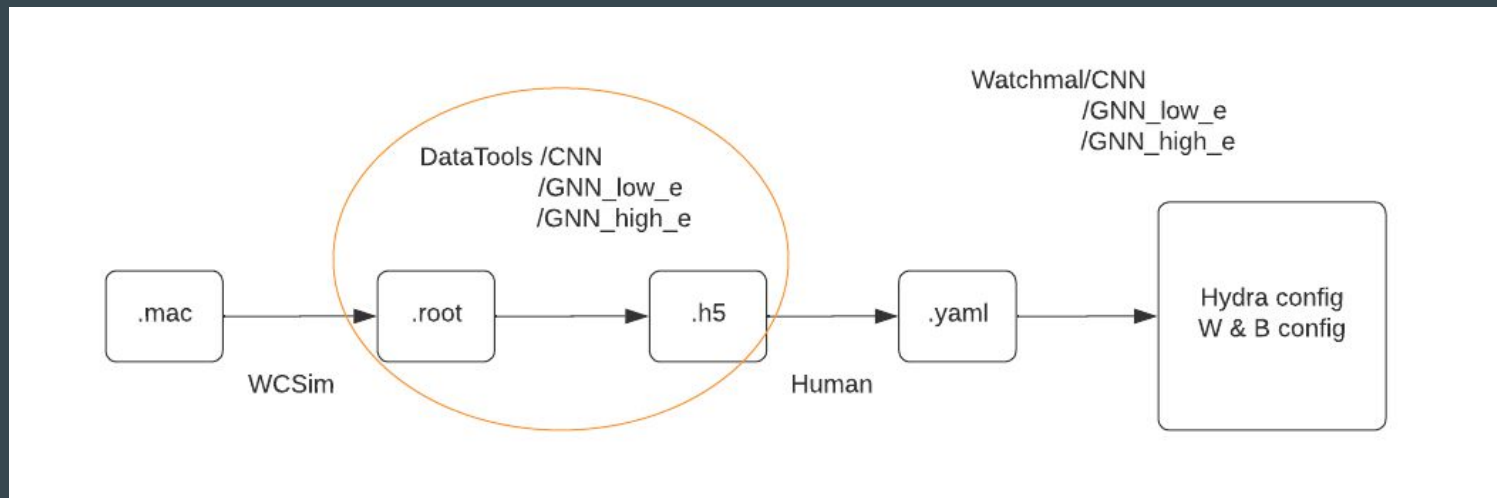
- ML projects program structures
- Before & During training advices

*In progress*

# Watchmal Collaboration - Projects Fusion

**Focus :** New DataTools

Structure :



# LLR Internal updates



# ML (general)

## Theory :

- Basics of ML(focused on neural networks)
- General approaches and their justifications

*In progress*

## Hands-on :

- ML projects program structures
- Before & During training advices

*In progress*

## Tool :

- Tutorial for W&B

*In progress*

# Interne LLR : Grant & Skynet

Bilan : In progress

Project divergence between high and low energy. The motivation for unification interrogates how different the programs are now

→ Decision : Program review for both Skynet and Grant

# Interne LLR : Framework

Anna / Christine / Me → Working with  
benjamin root et wcsim

Antoine → Working with ?

Which file currently used for training (Christine & Antoine ?)

→ Décision : Relecture des codes pour déterminer la structure unifiée.