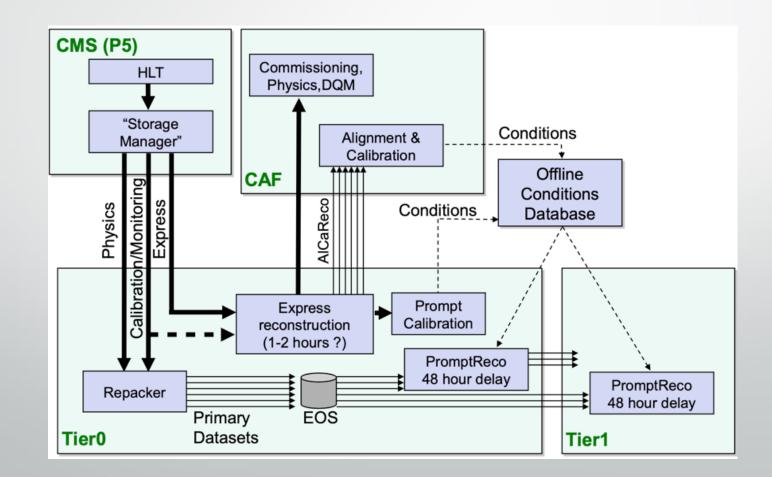
# Improving testing procedures for prompt data processing at CMS

**Mycola Kolomiiets**, Taras Shevchenko national university of Kyiv **Mentors:** Dmytro Kovalskyi, German Giraldo, Jan Eysermans

### Tier-o responsibilities

- workflow configuration
- output data placement
- prompt reconstruction of the data
- bookkeeping for the most sensitive data in the CMS Experiment

#### Data flow scheme



#### **Current State**

- Python syntax tests
- To Replay
- Some outdated unit tests (not currently in use)

# **Current State**

Test	Executing time	Errors that it can find				
Python syntax tests	Very quickly (in minutes)	Syntax errors				
Gap						
Replay	Much time (many hours)	All types of errors				

# Goal

Test	Executing time Errors that can be for		
Python syntax tests	Very quickly (in minutes)	Syntax errors	
Unit tests	Pretty quickly (in minutes)	Unit errors (wrong initialization, logic error, etc )	
Small functional test	Much time (hour or some)	Many types of big scale errors	
Replay	Much time (many hours)	All types of errors	

## First changes

#### Replay Request to test limitation on lumisections #4850

1 Open ItyTell wants to merge 3 commits into dmwm:master from ItyTell:master

41	+	<pre>setInjectLimit(tier0Config,</pre>	10
----	---	--	----

42 +

27

28

+ | | | --> InjectLimit - Maximum number of lumis to be injected into the system + | | | | from the SM database (default is unlimited) (used for small functional test)

55 + if injectLimit:

56 -

sql += " AND CMS\_STOMGR.FILE\_TRANSFER\_STATUS.LS < {injectLimit}".format(injectLimit = injectLimit)</pre>