



Institut national de physique nucléaire
et de physique des particules



Status of Virgo Computing @ CCIN2P3

May 27th, 2024

People & Tasks

- **People**

- Marie-Anne Bizouard (Artemis)
- + Morgan Lethuillier & Patrice Verdier (IP2I)
- Virgo support from CC-IN2P3 engineering team: Rachid Lemrani & Nadia Lajili
- + Support from CC-IN2P3 team : Vanessa Hamar, Bertrand Rigaud

- **Computing & Storage activities at CC-IN2P3**

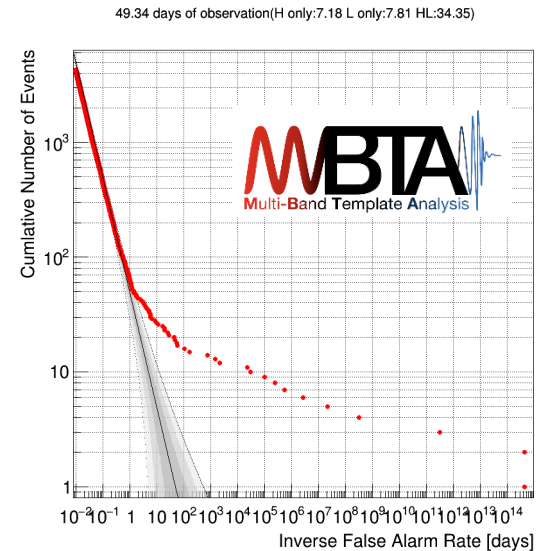
- Virgo data copy Livio Salconi & Rachid Lemrani
- MBTA { + DetChar Francesco Di Renzo and Nicolas Arnaud
- Omicron { MBTA team – Benoit Mours & Morgan Lethuillier
- Running iDQ (requires Omicron as inputs) on Virgo O4 data Alexis Boudon
- STAMP-PEM Max Lalleman
- Analysis facility for LVK users
- Accounting still in progress (GDPR issue)

Tasks performed at CC-IN2P3

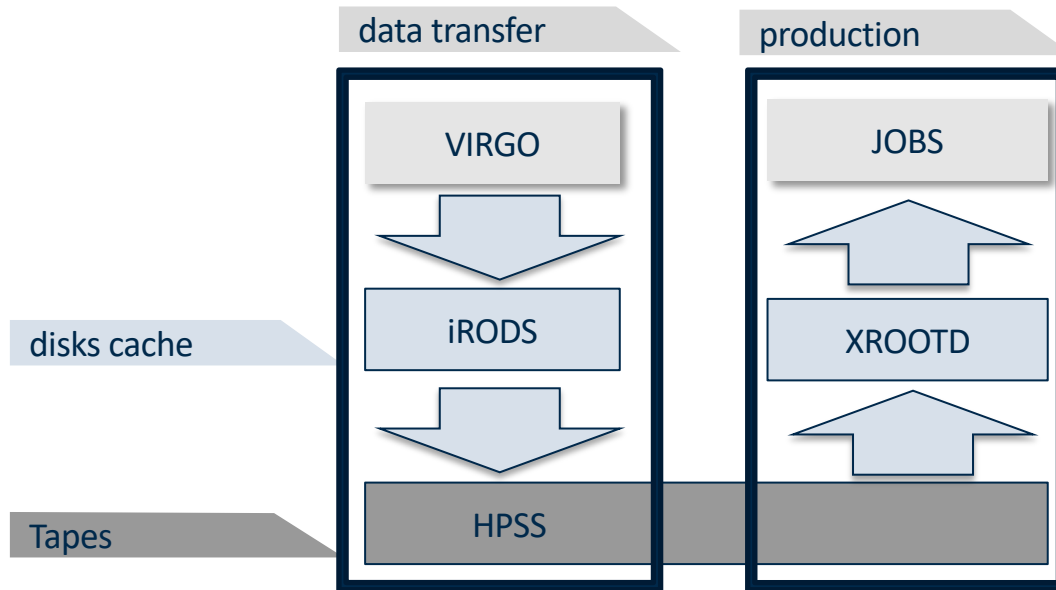
- **Data Transfer between Cascina and CC-IN2P3**
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 - Data archive to HPSS
- **Toward a stash cache at CC-IN2P3**
 - Work in progress
 - Next step: become an Access Point (job submission)
- **Development in progress (Artemis)**
 - Adapting pystampas condor layer to be able to run on Virgo resources through OSG
- **LVK protected web pages at CC-IN2P3**
 - Now operational (Shibboleth ...)

Tasks performed at CC-IN2P3

- **Full MBTA offline analysis now performed at CC-IN2P3**
 - MBTA is one the 3 main LVK pipelines dedicated to the observation of gravitational waves associated to the coalescence of binary compact objects (black hole, neutron star)
 - Entire processing is now done on the local CC-IN2P3 farm for both the “standard” analysis and subsolar analysis and for both data and simulation.
 - Analysis of the results and preparation of materials for internal LVK review also done at CC-IN2P3
 - Results of the standard analysis for the first part of the O4 run have been recently approved and will be made available on the new LVK protected web page



RAW data at CC-IN2P3



- Transferred to CC-IN2P3 with iRODS : upgraded to version v4
- Stored on tape : HPSS mass storage system

StashCache at CC-IN2P3: Status

We followed the official documentation

Done

- Installation completed
- Ports opened
- Service running
- Registration done

To do

- Omitted part: accounting, monitoring (via port 9930)
- « Permission denied » error with the test provided by the documentation
- Ticket opened on that issue

