# L1Calo/L1Topo Status: 9 May

- **L1Calo operations**
  - 1st special run finished
    - 80MHz for SatBCID studies
  - 2nd run also done - thanks!
    - For high mu noise/filters
  - Special saturated energy calibrations taken
  - Tile gains updated
    - Adjust for ExtBarrel D cell HV and few isolated towers
  - Final PPM FW update
    - Additional monitoring features
  - Generally smooth running
    - Apart from a few hot towers
    - And one slightly "cool" spot

- **L1Topo developments**
  - New stable FW 4.2.0
    - Readout & algorithm fixes
  - Online algo checks
    - Verify overflow behaviour
  - Recent fills being analysed
    - Very good HW-Sim matches
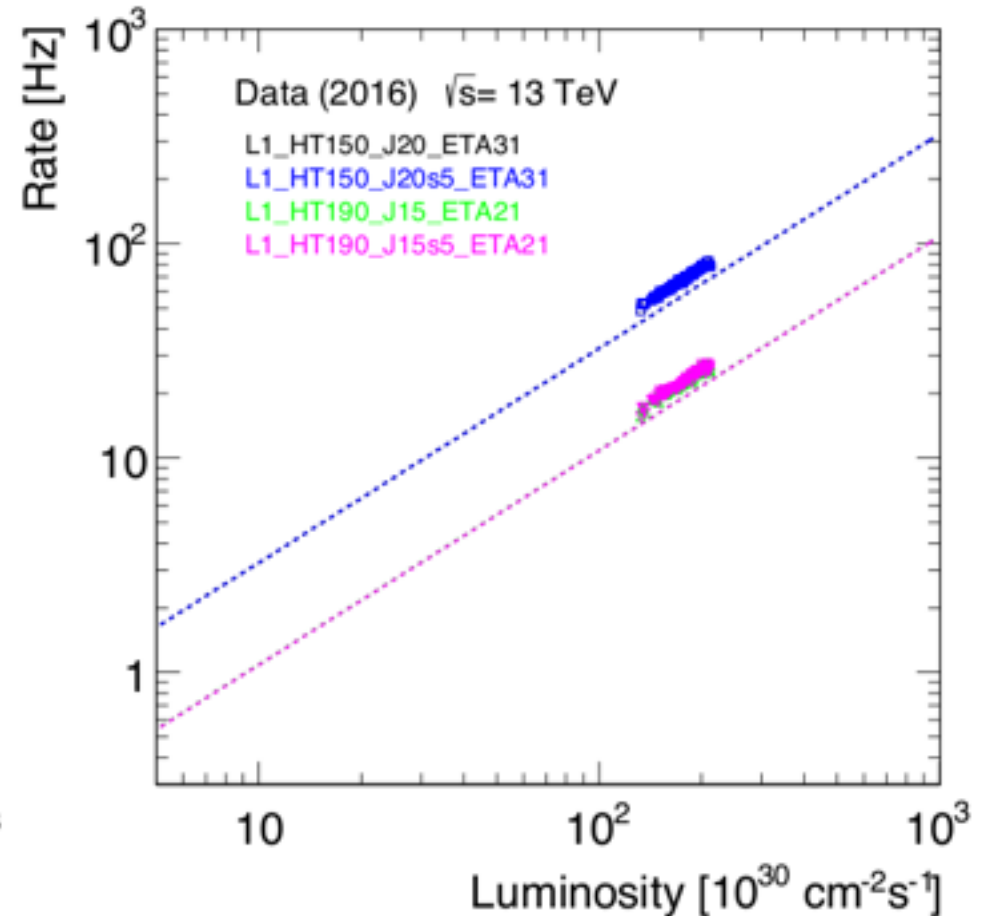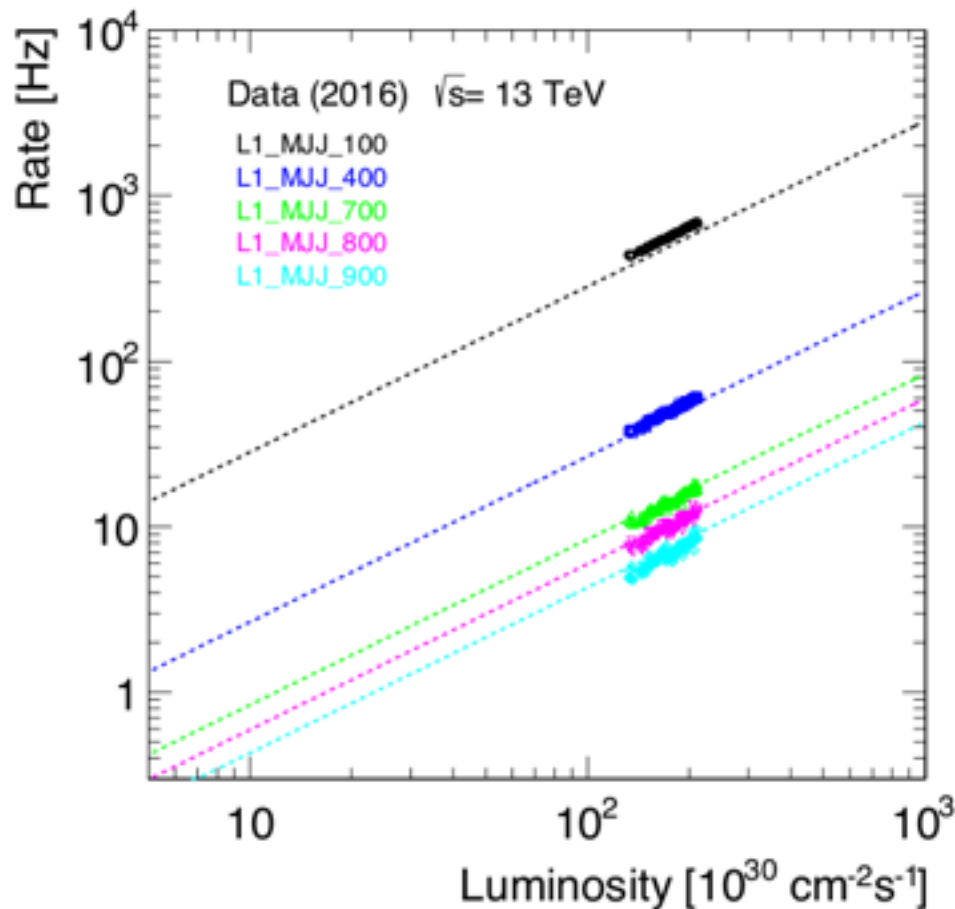    - But several algorithms still show problems, esp XE, MU6, DPHI
- **L1Topo next steps**
  - Few more FW optimisations
    - Plus bug fixes to be expected
  - L1Topo disabled for now
    - Until final FW ready
    - Maybe enable LAR algorithms?

# L1Topo: Rates vs Predictions

Run 298595 (FW 4.2.0)



- Some other input from Kunihiro
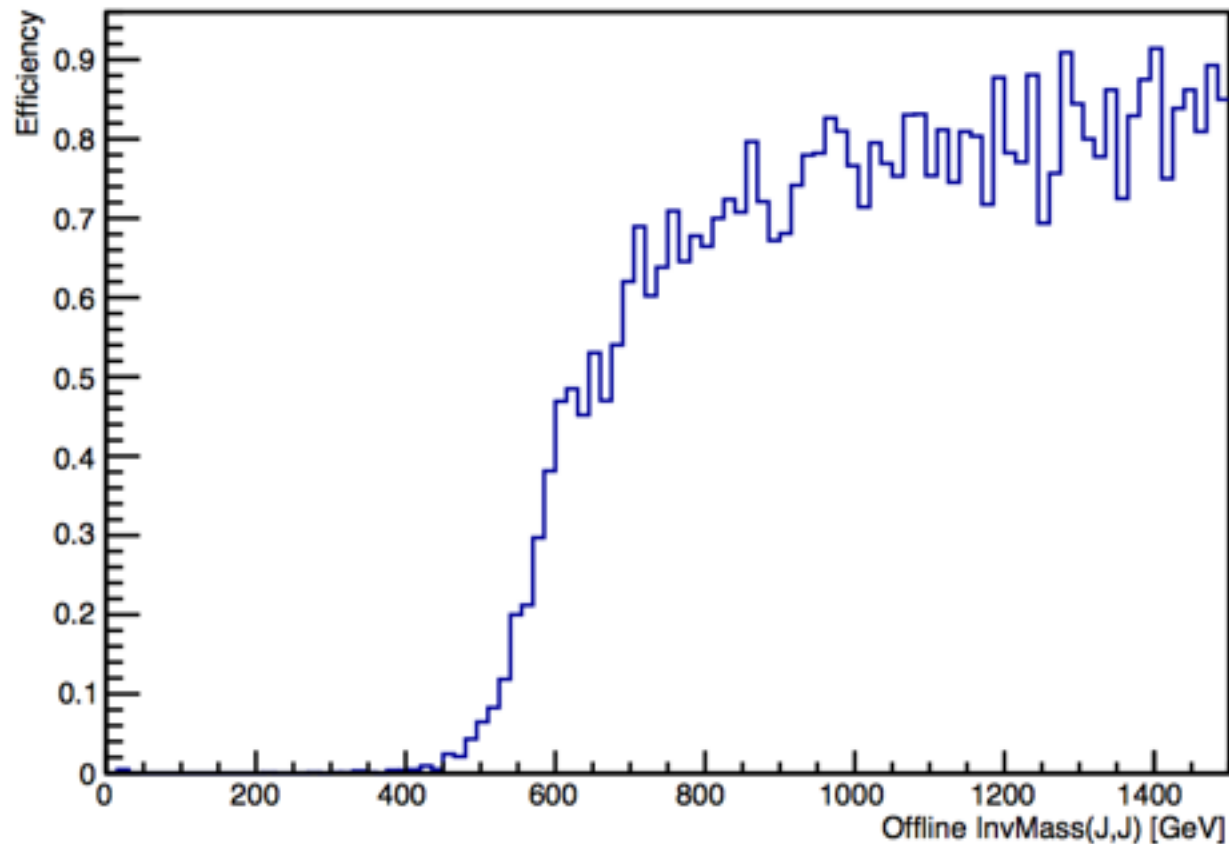- Also JPSI algorithms give excellent match

(and some other algorithms do not!)

# L1Topo: Invariant Mass Turn On

Run 298595 (FW 4.2.0)



L1_MJJ_400_OfflineMJJ_Efficiency_3

- First turn-on curve of MJJ-400 kindly offered by Imma
- Soon results from Muon simulation will kick in (Olya)
- The quality of the match with items using muon still unknown • All physics Run over the WE will be analyzed