## CESNET – Fermilab LHCONE ? for the NOvA experiment

How to increase the bandwidth?

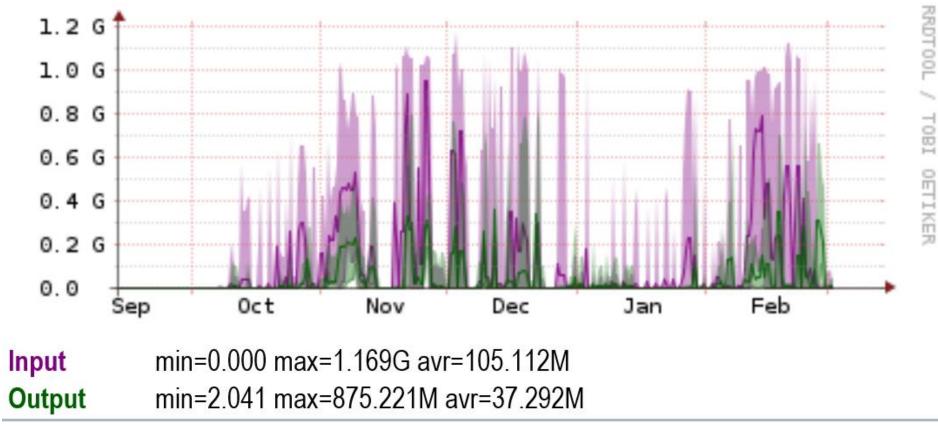
LHCONE meeting, Taipei

## NOvA experiment at FNAL

- NOvA experiment Neutrino oscillation accelerator experiment with FD at Ash River
  - Oscillation parameters
  - CP violation
  - ...
- FZU offers 1500 job slots on its Tier2 25% of computing capacity to NOvA
- NOvA is taking data
- First publications appearing





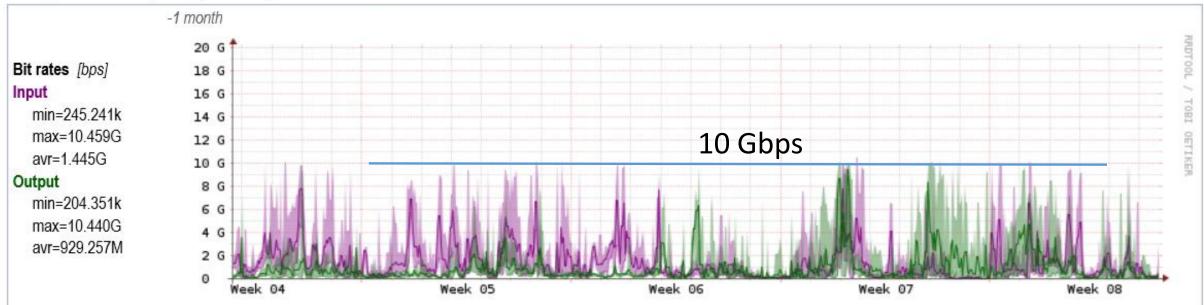


- 1 Gbps lambda FZU- Fermilab
- Filled when 1 500 jobs start to copy input data

- 3 Gbps might be sufficient
- Job slot increase probable

- Lambda switched-off, traffic over public network
- Seems to be worse than lambda, complaints from people from Fermilab using Prague Tier2
- Is possible to use LHCONE for this traffic?

- Implementation in Fermilab?
  Institute of Physics CAS –
  computing capacity for NOvA is
  internal capacity of Teir2
- Existing LHCONE traffic in Prague



TenGigabitEthernet7/1, Te7/1, LHCONE, 195.113.179.106

View (auto): 2. bit rates

- CESNET FZU
  - LHCONE over 10 Gbps
  - Ready to add another 10 Gbps
- CESNET started informative talks with Geant

- Adding 3+ Gbps lambda would be too expensive
- Using LHCONE seems to be most effective solution
- Similar experience exists with change of lambda to BNL