



French site report

Members of "LATFOR"; VO for continental Europe (Germany, France, Italy, Spain)

Potential users of ILDG are:

- Clermont-Ferrand (IN2P3)
- Grenoble (IN2P3)
- Marseille (INP/CNRS)
- Orsay (INP/CNRS)
- Palaiseau (INP/CNRS)
- Saclay (CEA)
- Tours (INP/CNRS)

Computer capacity

The unquenched configurations are produced at CNRS's computing center (11 racks of BlueGene/P).

The analyses are performed at different places:

- Computing center of IN2P3 in Lyon
- Computing center of CNRS (BlueGene/P)
- Computing center of CEA in Saclay
- Computing center of CINES in Montpellier
- Laboratories computers and clusters

Physics projects

Clermont/Grenoble/Orsay/Saclay

European Twisted Mass Collaboration (ETMC): Unquenched twisted mass configurations are produced on the BlueGene/P system installed at CNRS's computer center.

Analysis is done in various computing centers and PC clusters in the labs and on two french apeNEXT racks installed in Rome.

Physics themes: Baryon physics, gluon and ghost propagators, non perturbative renormalisation (RI-MOM).

Orsay

Flavor physics (decay, form factors) with $N_f=2$ Wilson-clover quarks: Specially charm and strangeness physics. Chiral behaviour of heavy-light systems. Distribution functions (charge, matter) in B mesons.

Alpha Collaboration: B physics, non perturbative matching between HQET and QCD, access to configurations produced by "CLS" (not stored on ILDG yet)

Marseille

Budapest-Marseille-Wuppertal (BMW): Baryons spectrum, chiral behaviour of strange mesons, light quark masses.

The analysis is shared between BlueGene/P system and a PC cluster installed in Marseille.

Tours

Topological defects in non-Abelian gauge theories. The analysis is done locally.

Use of the ILDG grid

We are part of the LATFOR (continental Europe) virtual organisation.

A storage element is working in the IN2P3 computing center in Lyon. We upload there the gauge configurations (ETMC) produced on the BlueGene/P machines at IDRIS.

Downloading is now used commonly: twisted quarks and Wilson-clover quarks.

We usually store (out of the grid) the propagators to compute 2pts and 3pts correlation functions (might become an issue on large lattices!).

Funding

There is no special funding for ILDG. However, IN2P3 plays a crucial role via its storage element working in its computing center in Lyon. Their expertise is recognized (Tier 1 of LCG).