

UKQCD Physics and Machine plans



- UKQCD has a number of current activities
 - Domain Wall : RBC-UKQCD (Edinburgh/Southampton)
 - Staggered : HPQCD/UKQCD/MILC (Glasgow/Liverpool)
 - Hot-dense & BSM : (Swansea/Edinburgh)
 - Twisted mass : (Liverpool)
 - Clover : QCDSF (Edinburgh/Liverpool)
- Presently few resources ; small fraction of QCDOC, DEISA time, clusters
- New grant award announced:
 - Clusters (Infiniband@Cambridge, Grid & distributed small resources)
 - BlueGene/P ~2 racks/28Tflop/s @ Daresbury (2010-2012)
 - Future prototype architecture (IBM/Edinburgh/Columbia) (Boyle/Christ/Kim)
 - ~ 4 racks / 800Tflop/s
- Future plans subject to science programme committee & machine performance!
 - DWF : 1.7-2.4 GeV + Large volume 1.45GeV
 - Staggered : HISQ
 - Twisted mass : Ask Karl
 - Hot-dense + BSM

