



- 2+1 flavour domain-wall QCD
 - Iwasaki gauge action, multi-timescale/mass-preconditioned RHMC

$L^3 \times T \times L_5$	am_{ud}, am_s	β	$a_\rho^{-1}(\text{GeV})$	$L(\text{fm})$	$m_{PS}(\text{MeV})$	am_{res}	$\tau_{MD}/N_{configs}$
	0.03, 0.04				630		7500/805+717
$16^3 \times 32 \times 16$	0.02, 0.04	2.13	1.62(4)	1.94	530	0.003	4000/810
	0.01, 0.04				400		4000/832
$24^3 \times 64 \times 16$	0.005, 0.04	2.13	1.73(3)	2.73	330	0.003	7000/1
$32^3 \times 64 \times 16$	0.004, 0.03	2.25	~ 2.2	~ 2.9	~ 260		2000/1

at <http://lattices.qcdoc.bnl.gov/>, coming soon to ILDG/QCDgrid

- for 16^3 data cite Allton et al., Phys. Rev. D76:014504 (2007)

- 2+1 flavour staggered QCD
 - asqtad + tadpole improved Symanzik gauge action, RHMC

$L^3 \times T$	am_{ud}, am_s	$10/g^2$	$a_{r_0}^{-1}(\text{GeV})$	$L(\text{fm})$	$m_{PS}(\text{MeV})$	$\tau_{MD}/N_{configs}$
$24^3 \times 64$	0.006, 0.03	6.75	1.61	2.9	290	30,500/5081

coming soon to ILDG/QCDgrid

- cite Gregory et al., arXiv:0710.1725



UKQCD data generation

- 2+1 flavour domain-wall QCD
 - Iwasaki gauge action, multi-timescale/mass-preconditioned RHMC

$L^3 \times T \times L_5$	am_{ud}, am_s	β	$a_\Omega^{-1}(\text{GeV})$	$L(\text{fm})$	$m_{\text{PS}}(\text{MeV})$	am_{res}	$\tau_{\text{MD}}/N_{\text{configs}}$
	0.03, 0.04				670		3000/611
$24^3 \times 64 \times 16$	0.02, 0.04	2.13	1.73(3)	2.73	560	0.003	4000/719
	0.01, 0.04				420		5000/1015
	0.005, 0.04				330		7000/802
$32^3 \times 64 \times 16$	0.006, 0.03	2.25	~ 2.2	~ 2.9	~ 310	~ 0.0006	2000
	0.004, 0.03				~ 260		2000

available only to UK/USQCD at <http://lattices.qcdoc.bnl.gov/>

- 24^3 data release awaits an RBC+UKQCD paper (in preparation)
- 2+1 flavour staggered QCD
 - asqtad + tadpole improved Symanzik gauge action, RHMC

$L^3 \times T$	am_{ud}, am_s	$10/g^2$	$a_{r_0}^{-1}(\text{GeV})$	$L(\text{fm})$	$m_{\text{PS}}(\text{MeV})$	$\tau_{\text{MD}}/N_{\text{configs}}$
$32^3 \times 64$	0.00775, 0.031	7.095	~ 2.2	~ 2.9		0

- just starting