

# Beautiful Mesons and Baryons on the Lattice

2-6 April 2012

## Monday

8:50	5-10 min	Organizer	Welcome
9:00	50+10 min	A Kronfeld	$B$ Physics from Fermilab/MILC for and Beyond the Standard Model
10:00	50+10 min	A Khodjamirian	Exclusive semileptonic $B$ and $\Lambda_b$ decays at large hadronic recoil
11:00	30 min	–	<i>coffee</i>
11:30	50+10 min	P Dimopoulos	$B$ physics from lattice QCD by ETMC
12:30	105 min	–	<i>lunch</i>
14:15	50+10 min	C Bobeth	Phenomenological benefits of low recoil and $\Delta B = 1$ fits
15:15	35+10 min	M Wingate	$B \rightarrow V$ form factors from NRQCD
16:00	30 min	–	<i>coffee</i>
16:30	50+10 min	T Feldmann	Hadronic effects in exclusive $b \rightarrow s\ell^+\ell^-$ transitions
17:30	35+10 min	N Uraltsev	Heavy quark expansion in QCD and $b \rightarrow c$ near zero-recoil

## Tuesday

9:00	50+10 min	T Blake	Recent results from LHCb
10:00	50+10 min	A Lenz	SM predictions for $B$ mixing observables
11:00	30 min	–	<i>coffee</i>
11:30	50+10 min	C Davies	Relativistic $b$ quarks
12:30	105 min	–	<i>lunch</i>
14:15	35+10 min	C-J D Lin	Axial couplings in heavy hadron $\chi$ PT
15:00	50+10 min	R Dowdall	$B$ meson and bottomonium spectroscopy with radiatively improved NRQCD
16:00	30 min	–	<i>coffee</i>
16:30	35+10 min	J-W Chen	On the quark mass dependence of 2-nucleon observables
17:15	50+10 min	V Braun	Baryon wavefunctions from lattice QCD

## Wednesday

9:00	50+10 min	R Lewis	Bottomonium masses and radiative transitions
10:00	50+10 min	T Burch	Spectrum of singly, doubly, and triply heavy hadrons on $N_f = 2$ and $2 + 1$ improved clover-Wilson lattices
11:00	30 min	–	<i>coffee</i>
11:30	50+10 min	K Seth	Hyperfine interaction in heavy quarkonia
12:30	afternoon	–	<i>lunch &amp; free time for work/sightseeing</i>

## Thursday

9:00	50+10 min	E Gamiz	$D$ and $K$ physics from Fermilab/MILC
10:00	50+10 min	N Uraltsev	Loop-less nucleon EDM and charm CP violation
11:00	30 min	–	<i>coffee</i>
11:30	50+10 min	O Witzel	$B$ physics using domain-wall light and relativistic $b$ quarks
12:30	105 min	–	<i>lunch</i>
14:15	35+10 min	W Detmold	Axial couplings and strong decay widths of heavy hadrons
15:00	50+10 min	S Meinel	Excited state spectroscopy of triply-bottom baryons
16:00	30 min	–	<i>coffee</i>
16:30	35+10 min	R Sommer	Matching effective field theories for $b$ quarks with QCD: perturbative and nonperturbative
17:15	50+10 min	P Fritzsche	$B$ physics from nonperturbative HQET with two dynamical light quarks

## Friday

9:00	50+10 min	C Monahan	Extracting $B$ physics from lattice simulation via lattice perturbation theory
10:00	50+10 min	D Hesse	Automated lattice perturbation theory applied to HQET
11:00	30 min	–	<i>coffee</i>
11:30	50+10 min		
12:30		–	<i>lunch &amp; departure</i>