## Azuelos - Search for SSB at the LHC

Q: Trigger list at the LHC, in particular DEWSB events? A: Anything with leptons be triggered on well. Forward jet triggers are possible, but difficult.

Martin - Technicolor LHC phenomenology

Q: Large N limit --> narrow resonances. More realistic --> wider (harder to see?) A: Yes, but depends on fermion couplings.

Q: Why a 5-D framework over 4-D? A: Easier to do this way. 4-D framework could be done, would amount to a different organizing scheme.

Q: Are predictions wrong if the 5-D picture is wrong? A: No, just an organizing principle. Allows generation of 100-odd original parameters with some correlations by taking only a few parameters.

Fleming - Nf dependence of Yang-Mills

Q: Don't S parameter estimates favor smaller Nc, higher reps? A: Phenomenological S-par estimates may be wrong...

Q: SU(3) w/12 flavors - strong IRFP? A: Not really, consistent with 3-loop PT so far.

Q: IR vs. UV degrees of freedom? Is the fixed point real? A: Weak FP, dof seem to be approx. equal...

Q: Helpful finite size effects? e.g. s^3xr, take r-> infinity. A: It's nice to have only one scale here. Although experience with 2-D CFT --> easy to extract continuum anomalous dim. from finite scaling...

Q: Check  $N_TC = 2$  (model consistent with neutrinos?) A: Have to rewrite code to go to SU(2).

Nogradi - Nonpert. Higgs(less) physics

(I didn't get much here...there weren't any questions afterwards, and during the talk the questions just turned into long debates that weren't really resolved.)

Terning - Unparticles and QCD Jets

Q: Motivation for unparticles? A: Lamppost principle - the motivated models don't seem to be working.

Seager - High performance computing

Q: Commerical uses for BG/P? A: Most applications by gov. Important that other applications don't lag too far behind QCD in scaling, reducing demand (pyramid model.)

Cheng - Dynamical fermion algorithms

Q: Cost factors gained from algorithm improvement? A: ~5 for R algorithm --> RHMC, ~2 for better integrators, so 1 order of magnitude overall.

Unsal - Duality, confinement, topological excitations

Q: Is center symmetry there? A: Yes, manifestly w/ adj. fermions.

Luty - Conformal Technicolor

Q: For gamma = 1, are the conformal and QCD cases equivalent? A: Yes, but phases are still different, just can't tell them apart in this way.

Q: m\_p? Look at something heavier than pion, cleaner separation? A: m\_p lives up at the scale Lambda, and so doesn't probe conformal dynamics.

Q: Use long geometry to see e^{-Lm}? A: Maybe...done in stat mech communities

Catterall - Lattice SUSY and Strong Dynamics

Q: N=1 --> Q=4...theory w/1 out of 16 SUSYs. May not get rotational invariance.

Q: Pfaffian problem: in theory, or lattice artifact? A: Artifact, similar to N=1 case. D\_\mu --> \Delta\_\mu prescription, no doubling here.

Q: On larger volumes, is the 1st-order transition indep. of volume size? A: Same on 4/8. Want to work fairly close to the transition (but not too close.)

Q: Is the lattice needed to study SUSY non-pert. for LHC physics? A: Knowing gaugino condensate is very useful...overall spectrum presumably of interest.

## Giedt - Domain Wall Lattice SYM

Q: Continuum results disagree with each other...weak coupling instanton is correct.

Q: Is there a strong coupling bulk phase transition? A: Adjoint fermions --> adjoint Wilson line... (I kind of lost this argument here.)

## Katz - Lattice and Holography

Q: Before DIS, models of hadron spectrum...how is this different? A: Has a certain set of features that don't just follow from symmetry.

Q: Simple ops <---> lowest dim. states...ops corresponding to lightest states are of lowest canonical dim.

Bringoltz - Breakdown of large-N red.

Q: w/Large N models, can you produce inputs extra dim. people need (e.g. gluino cond?) A: Yes, in principle...

Q: Is the transition indep. of N? A: Some dependence,  $1/N^{\rm A}2...$ 

Q: Can this be done with non-unitary U? A: Complicated...