Phenomenology of Enhanced $b \to sg$

A. Kagan
Univ. of Cincinnati

1. Theoretical Motivation: Quark Mass generation at the TeV scale

2. Hints for enhanced $b \to sg$
   - charm counting
   - kaon counting
   - n_c vs B_{SL}, $\tau(\Lambda_b)/\tau(B_d)$

3. Fragmentation in $B \to X_{sg}$ decays
   - K momentum spectra, search strategies

4. Rare decays w/ enhanced $b \to sg$ in the factorization model
   - large CP violation in $B \to K\phi$, ϕX_s, $\bar{K}^0\pi$
   - implications for η' production