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## **$B \rightarrow \pi l \nu$ and $B_s \rightarrow K l \nu$ from FNAL/HPQCD**

*Wednesday 10 September 2014 09:45 (20 minutes)*

Recently published and preliminary Fermilab/MILC and HPQCD lattice QCD calculations of form factors for  $B \rightarrow \pi l \nu$  and  $B_s \rightarrow K l \nu$  will be presented. In combination with existing experiment, these results generate a significant reduction in the error of  $V_{ub}$ . I will also discuss plans to improve the lattice calculations, including the use of a fully relativistic b quark to eliminate matching errors and an effort to extend the kinematic range of validity of lattice simulations to smaller  $q^2$ .

**Presenter:** BOUCHARD, Chris (University of Illinois)

**Session Classification:** WG2