

## **Towards the lattice measurement of $f_{B_s}$ at $O(1/m_b)$ in Heavy Quark Effective Theory**

*Wednesday 23 January 2008 12:10 (20 minutes)*

We will present a strategy to extract from a lattice computation the decay constant  $f_{B_s}$ . It involves a non perturbative matching of QCD with Heavy Quark Effective Theory including  $1/m_b$  corrections, which is done in a very small physical volume. After a non perturbative evolution of observables in the effective theory to larger volumes, the decay constant is determined from simulations performed in a big lattice. All the steps are done by keeping the continuum limit extrapolation under control. Preliminary results of a quenched calculation are shown.

**Presenter:** BLOSSIER, Benoit (DESY Zeuthen)

**Session Classification:** Saveurs lourdes