Contribution ID: **149** Type: **not specified**

Rare B meson decays on the lattice

Monday, 29 August 2016 15:40 (20 minutes)

The extraction of the $B \to K^*$ transition form factors from lattice data at (close to) physical pion masses is discussed. The possible mixing of πK and ηK states is taken into account. Applying non-relativistic effective field theory in a finite volume, the two-channel analogue of the Lellouch-Luscher formula is reproduced. Due to the resonance nature of the K^* , it is shown how the form factors can be determined at the pole position in a process-independent manner. The infinitely-narrow width approximation of the results is also discussed.

Summary

Primary author: AGADJANOV, Andria

Co-authors: Dr RUSETSKY, Akaki (University of Bonn); Prof. MEISSNER, Ulf-G. (University of Bonn, Forschungszentrum Jülich); Prof. BERNARD, Veronique (Paris-Sud University)

Presenter: AGADJANOV, Andria

Session Classification: Section C

Track Classification: Section C: Heavy Quarks