



Contribution ID: 152

Type: **Talk**

$B - \bar{B}$ mixing with domain-wall light quarks and relativistic b -quarks

Friday, 17 July 2015 17:10 (20 minutes)

Using our well established setup of domain-wall light quarks and nonperturbatively tuned, relativistic b -quarks we extend our B -physics program to the computation of B -meson bag parameters and their ratio ξ . We present first results based on the RBC/UKQCD 2+1 flavor gauge field configurations with domain-wall fermions and the Iwasaki gauge action at two lattice spacing of 0.086 fm and 0.11 fm.

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Session Classification: Weak Decays and Matrix Elements

Track Classification: Weak Decays and Matrix Elements