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Kaon physics from lattice QCD

Wednesday 28 July 2010 14:00 (1 hour)

Enhanced algorithms and multi-teraflops computer resources are making an increasing range of kaon physics accessible to lattice QCD. After an overview of the RBC/UKQCD chiral fermion simulation program, results will be presented for f_K/f_pi , B_K and the complex amplitude A_2 determining Delta I = 3/2, $K \rightarrow pi+pi$ decay. Initial work and prospects for the similar Delta I = 1/2 $K \rightarrow pi+pi$ amplitude will also be described.

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