

Department of Theoretical Physics

Free Meson Seminar

<i>Speaker</i>	:	Bhavik Kodrani (Physical Research Laboratory, Ahmedabad)
<i>Topic</i>	:	Implications of CP violating 2HDM in B Physics
<i>Day, Date & Time</i>	:	Thursday, December 23, 2010 at 2:30 p.m.
<i>Place</i>	:	AG 69

Abstract

New sources of CP violation can arise in general two Higgs doublet models in three ways : (1) From the mixing between scalar and pseudo-scalar. (2) From the phases in couplings of tree level flavour changing neutral currents. (3) From the phases in charged Higgs couplings to the fermions. Consequences of all these CP violating effects in the general 2HDM in B systems will be discussed. In particular, we will discuss the possibility of explaining the large CP violating phase observed in Bs mixing in 2HDM.

(Nilmani Mathur)