

## Literature for the ACD Model

My talk mainly bases on the 2nd chapter of A. Poschenrieder's diploma thesis which you can get, if you ask me; however you can also find everything in the following papers:

- T. Appelquist et al., *Bounds on Universal Extra Dimensions*, hep-ph/0012100: first paper which treats the ACD model; shows explicitly differences between the SM and the ACD model; calculates the shifts in the electroweak data due to extra dimensions and states lower bounds on  $R$ ; treats the question of discovering KK states; note that most of the calculations are done for  $\delta$  extra dimensions where  $\delta$  does not necessarily have to be equal one.
- F. J. Petriello, *Kaluza-Klein Effects on Higgs Physics in Universal Extra Dimensions*, hep-ph/0204067: treats the scalar mixing effect between the  $n$ th Higgs modes and the 5th components of the gauge fields in Feynman gauge; performs furthermore calculations of  $h \rightarrow \gamma\gamma$ ,  $h \rightarrow gg$  and  $h \rightarrow \gamma Z$ .

The next two papers show the Feynman rules for the ACD model in their appendices:

- F. Burnell, G. D. Kribs, *The Abundance of Kaluza-Klein dark matter with coannihilation*, hep-ph/0509118
- D. Hooper, S. Profumo, *Dark Matter and Collider Phenomenology of Universal Extra Dimensions*, hep-ph/0701197.

Furthermore I give you a short and incomplete list of introductions to the various extra-dimensional models:

- T. G. Rizzo, *Pedagogical Introduction to Extra Dimensions*, hep-ph/0409309.
- M. Quiros, *New Ideas in Symmetry Breaking*, hep-ph/0302189.
- C. Csaki, *TASI lectures on extra dimensions and branes*, hep-ph/0404096.
- R. Sundrum, *To the fifth Dimension and Back*, hep-th/0508134.