



Asymmetries in the Littlest Higgs Model

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Little Higgs models were recently proposed as an alternative for models of electroweak symmetry breaking. They can be regarded as one of the important candidates of the new physics beyond the Standard Model. We consider here the phenomenology of the minimal model of this type, the "Littlest Higgs Model" (LHM). It predicts the existence of the new gauge bosons ZH and AH . We calculate the contributions of these new particles to the forward-backward and left-right asymmetries in the processes $e^+e^- \rightarrow f^+f^-$. We study the possibility

of detecting the lightest new gauge boson, AH , in the future e^+e^- colliders with c.m. energies of 500 GeV and 1 TeV and compare the LHM predictions with other models.

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