SEARCH FOR CHARGED HIGGS BOSON USING THE DZERO EXPERIMENT*

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The existence of a charged Higgs boson is hypothesized in different extensions of new physics beyond the Standard Model of particle physics. To date, no evidence for this particle has been found. A search for the charged Higgs boson decaying to a top and a bottom quark was carried out using data collected by the $D\emptyset$ experiment at Fermilab. Preliminary results obtained using nearly 1 fb⁻¹ of data will be presented.

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