Search for the standard model Higgs boson produced in association with W or Z bosons, and decaying to bottom quarks

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One of the most important decay channels of the standard model Higgs is its decay into a pair of bottom quarks. For the highest signal significance, the associated production of the Higgs with a W or Z boson is investigated. Six different channels are used: $W(\mu\nu)H, W(e\nu)H, W(\tau\nu)H, Z(\mu\mu)H, Z(ee)H$ and Z(nu(nu)H). Adatasample, recorded by the CMS 1 at $sqrt{s} = 3TeV$ is analyzed. Exclusion limits at the 95% confidence level and significance of sign (to b) b) in the mass range 110-135\$ GeV are reported.

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