

Role of the Z polarization in the $H \rightarrow b\bar{b}$ measurement.

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In this talk I show that the Z boson polarization has relevant information to distinguish the signal $pp \rightarrow ZH$, $H \rightarrow b\bar{b}$ from the dominant background $Zb\bar{b}$, which is part of the $\mathcal{O}(\alpha_s^2)$ correction to the Drell-Yan Z production, and can help us to finally observe the largest Higgs boson branching ratio.

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