



Contribution ID: 61

Type: **not specified**

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

*Wednesday 26 September 2018 16:47 (20 minutes)*

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 irreducible background  $Zb\bar{b}$ , and can help us to observe the largest Higgs boson branching ratio in this channel.

**Primary authors:** GONÇALVES, Dorival (University of Pittsburgh); NAKAMURA, Junya (Universität Tübingen)

**Presenter:** NAKAMURA, Junya (Universität Tübingen)

**Session Classification:** Parallel Session: Pheno 2

**Track Classification:** Particle Phenomenology