are due to the fact that $Z_t$ has a more massive final state, with left as well as right handed charge currents. The Aim is to examine the significance of the off-shell $Wb$ and $Zt$ processes.

Conclusions

Future Research

REFERENCES

OBJECTIVES

Off-shell

On-shell

RESULTS

Introduction

Off-shell Production of VLQ's

The objective is to investigate the significance of the off-shell production of VLQ's, with right as well as left handed charge currents. Vector-like quarks are proposed to be new particles that could explain the observed anomalies in the Standard Model. The study of these particles is crucial for understanding the fundamental properties of matter. The research would involve the use of advanced computational tools and simulations to explore the properties of vector-like quarks. The results of this research would contribute to the ongoing efforts to understand the particle content of the universe.