

Search for an extra higgs decaying to $\mu^+\mu^-$

XYZ, ABC
some insitute

01-01-2020



- 1 Introduction
- 2 Some models
- 3 Summary

introduction

Why an extra higgs needed?

- Fermion mass hierarchy
- Dark matter candidate
 - ① susy particle
 - ② dark photon
 - ③ neutrino
- other



- 1 Standard Model: only one higgs (CP even)
- 2 SuperSymmetry Models: ...
- 3 2-Higgs-Doublet Models (2HDM): ...

model	description
SM	one higgs
SUSY	explain to fermion mass hierarchy
2HDM	predict big FCNCs

- 1 No extra higgs is found for the moment ...