

# Searching for new Long lived particles using a dedicated detector simulation

PUCP ToyDetector C++ simulation with Pythia8 and Fastjet  
Rerun simulation and do statistical data analysis as well  
as a search for a new heavy neutrino

## Group

FH-CMS

## Project Category

B1. Physics data analysis and performance (software-oriented)

## Special Qualifications

Preferably C++ (MG5 and Pythia 8 knowledge welcome)

## DESY Site

Hamburg

**Authors:** HINZMANN, Andreas (CMS (CMS Fachgruppe Searches)); COLL SARA VIA, Lucia (CMS (CMS Fachgruppe Searches))

**Presenter:** COLL SARA VIA, Lucia (CMS (CMS Fachgruppe Searches))