



A PhD in Experimental Particle Physics

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What do I do?

*What did I
do before
my PhD?*

Who am I?

Introduction

*Why choose a
PhD?*

*Why Experimental
Particle Physics?*

Working on the LHC at such an interesting time

Atmosphere at CERN

Enjoying what I do every day – Well almost!

Living near the Alps!

The Best Bits!

Learning many new skills

Contributing to a field of research I care about

Working in different countries

Working with people who are enthusiastic about what they do

Job Security:
Can be difficult to obtain permanent positions in the field

Pay:
Generally not as good as in industry



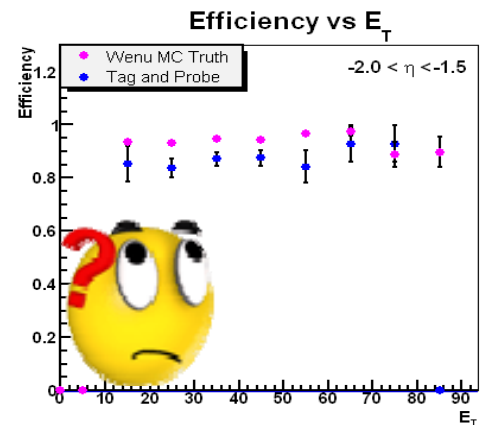
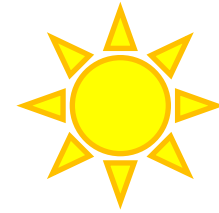
Admin:
6 weeks advance notice required for business trips

Some of the Questions we hope to Answer...

- **What is the origin of mass?**
- **How many space-time dimensions do we live in?**
- **Are the particles fundamental or do they possess structure?**
- **Why is there overwhelmingly more matter than anti-matter in the Universe?**
- **What is the nature of the dark matter that pervades our galaxy?**

A Week in the Life of an Experimental Particle Physics Student

- Model making:
 - Modelling the interactions of particles using computer programs
 - Figuring out why the results look like they do
 - Preparing to analyse data from LHC
- Meetings:
 - Presenting methods and results
 - Lots of lively discussion!
- Researching fields of interest



...days off can be pretty fun too!

