

About Me

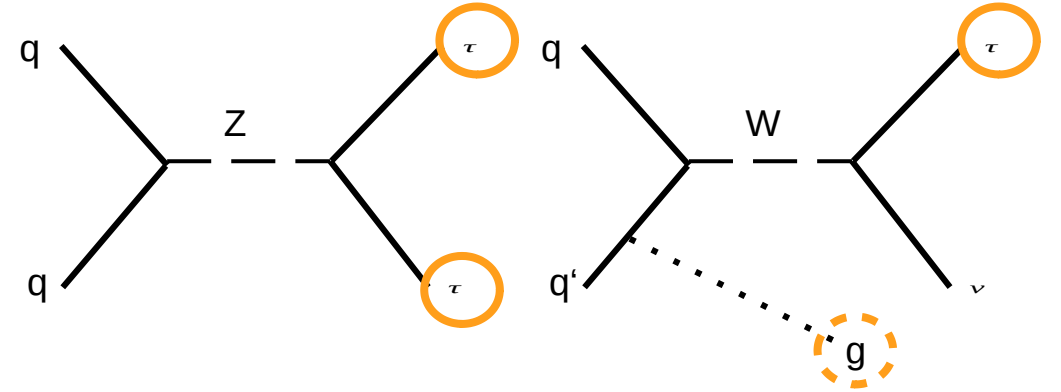
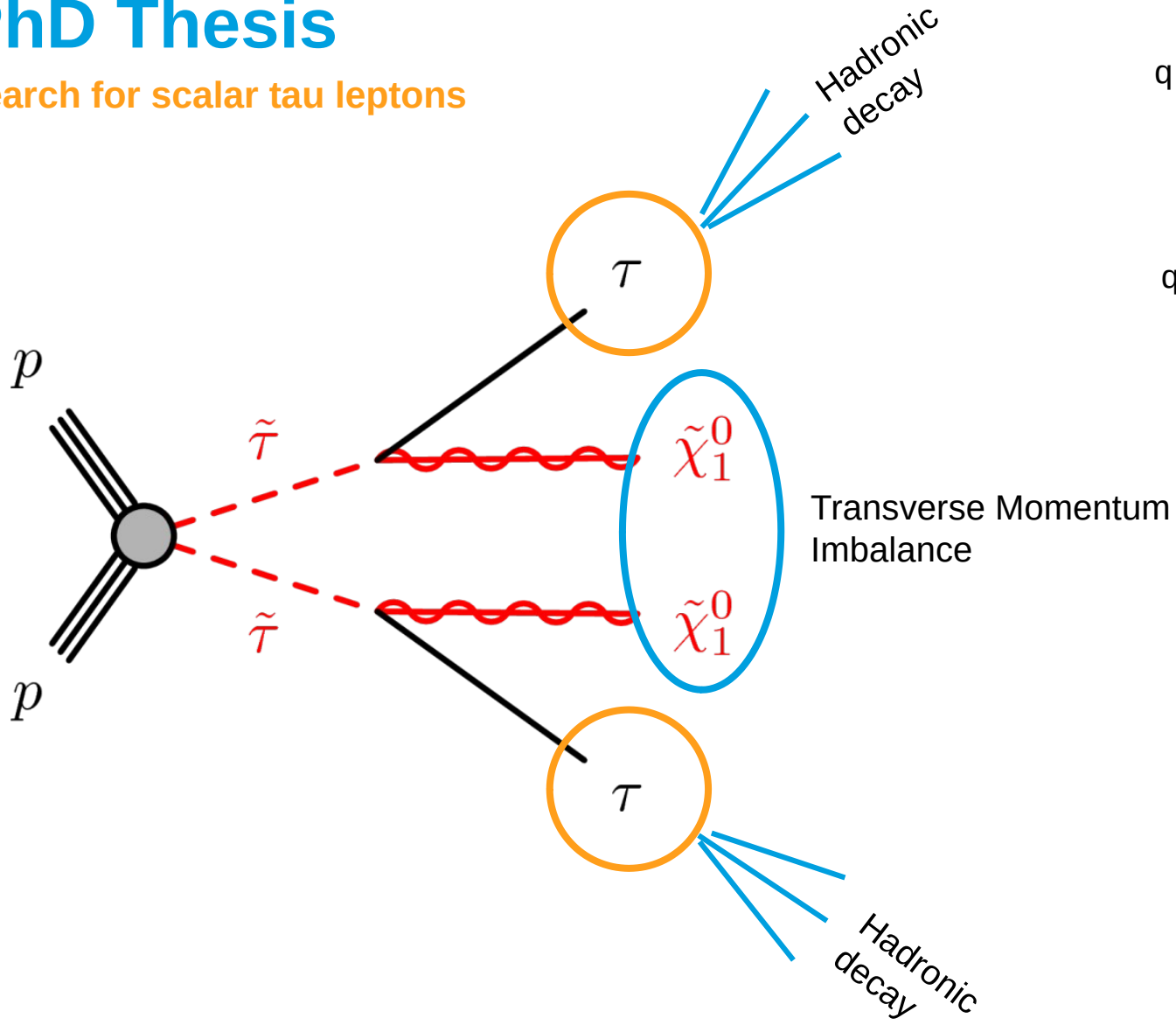
Background

- Originally from Salzburg, Austria
- Ludwig-Maximilians-Universität Munich:
- Bachelor, Master and PhD until Dec. 2020
- Since Jan. 2021: Postdoc at DESY Zeuthen



PhD Thesis

Search for scalar tau leptons

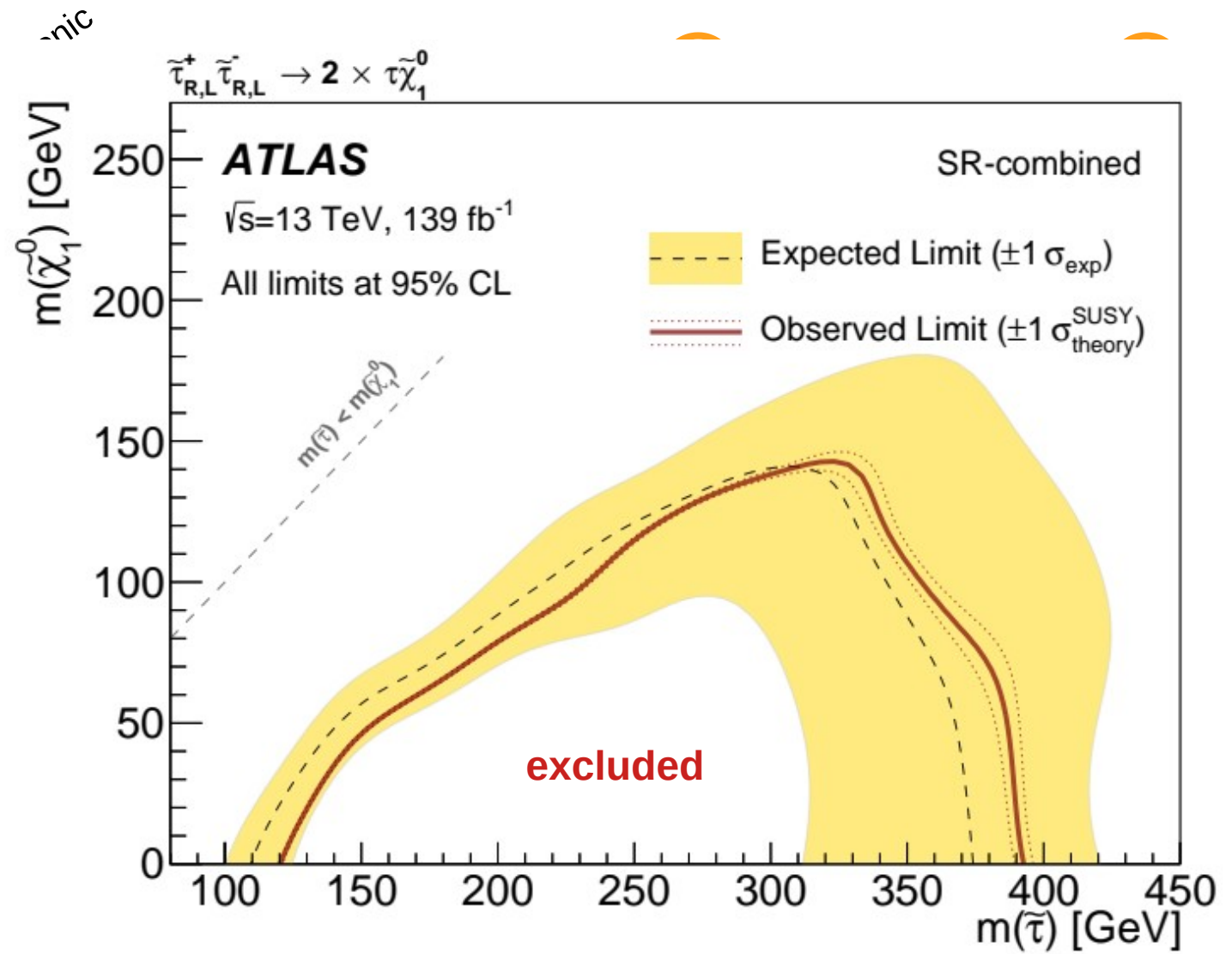
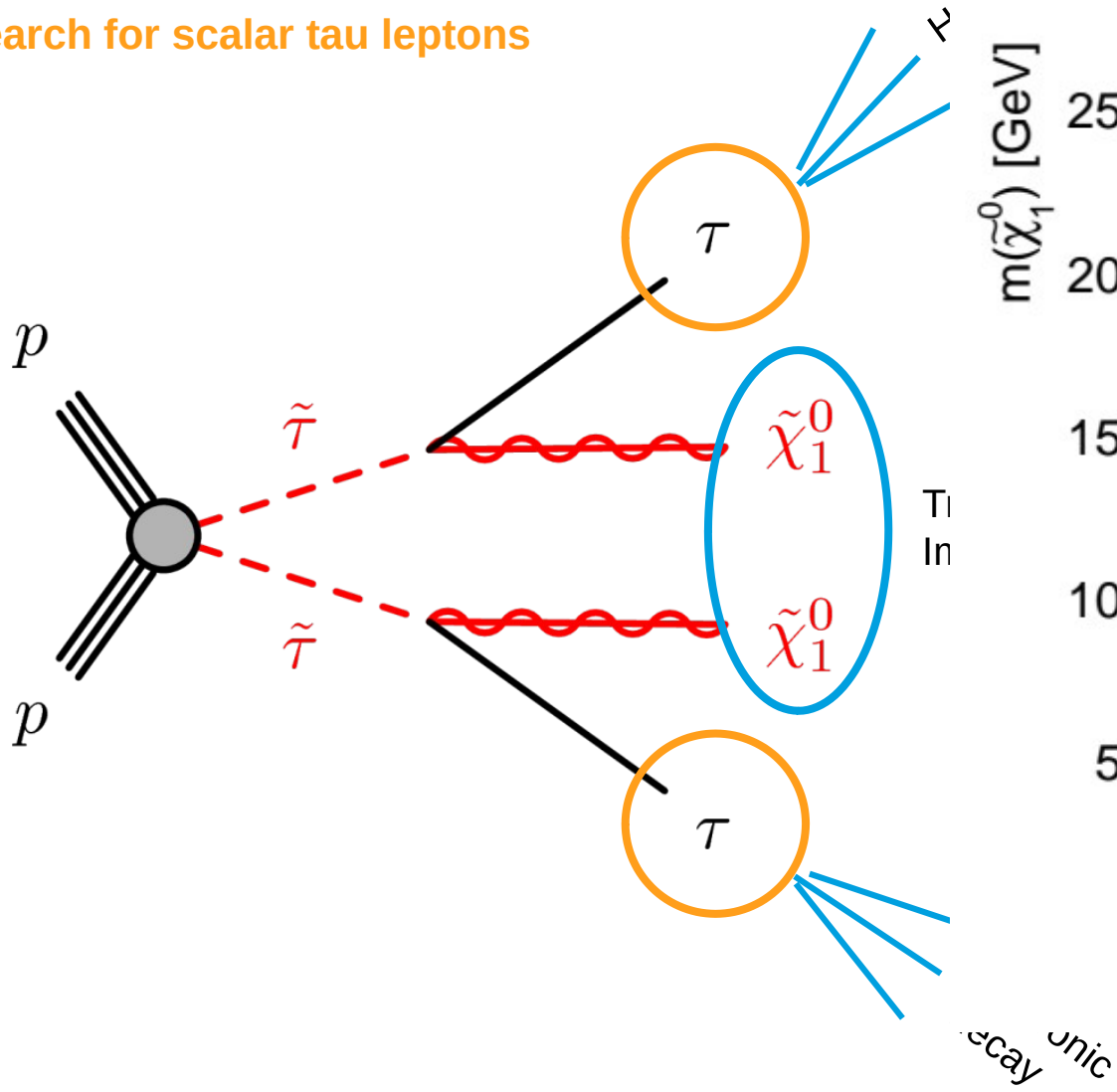


Cut-based Analysis:

- Use set of kinematic selections to separate signal from background

PhD Thesis

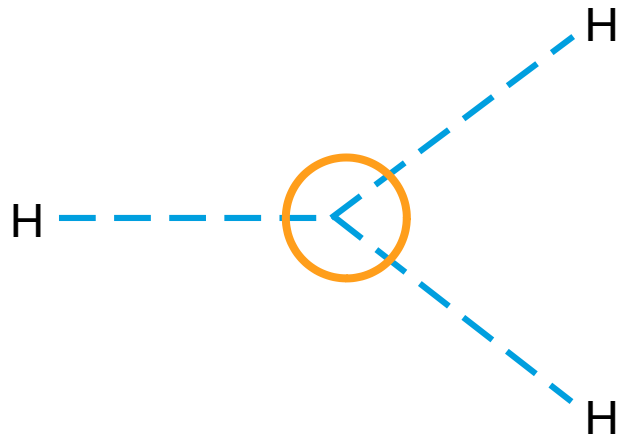
Search for scalar tau leptons



My Current Work

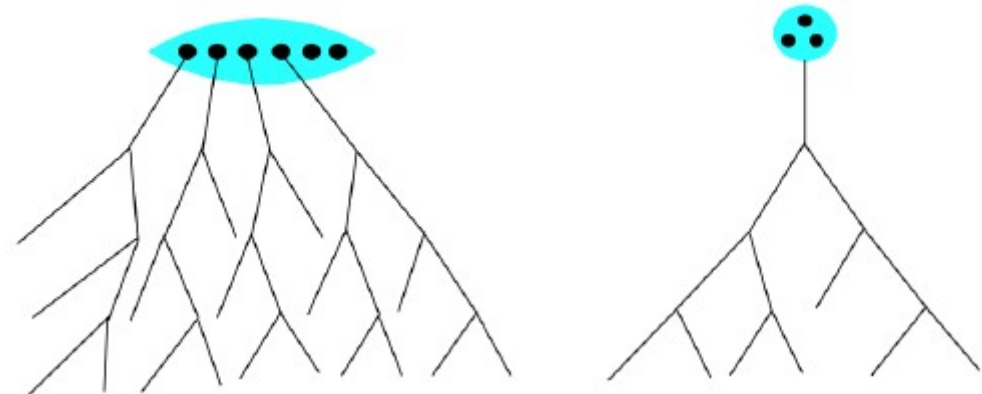
Di-Higgs production with 4b decay in ATLAS

- Production of 2 Higgs-bosons is sensitive to trilinear Higgs-coupling
- Very small – not discovered so far



Forward QCD measurements with ATLAS and LHCf

- Cosmic Ray Physics: Need good models for hadronic interactions in forward region for air-shower modelling
- Modelling issues: Muon deficit...
- Measurements of cross sections and energy spectra in the forward region are a valuable probe and input for air shower simulations



My Favourite Plot

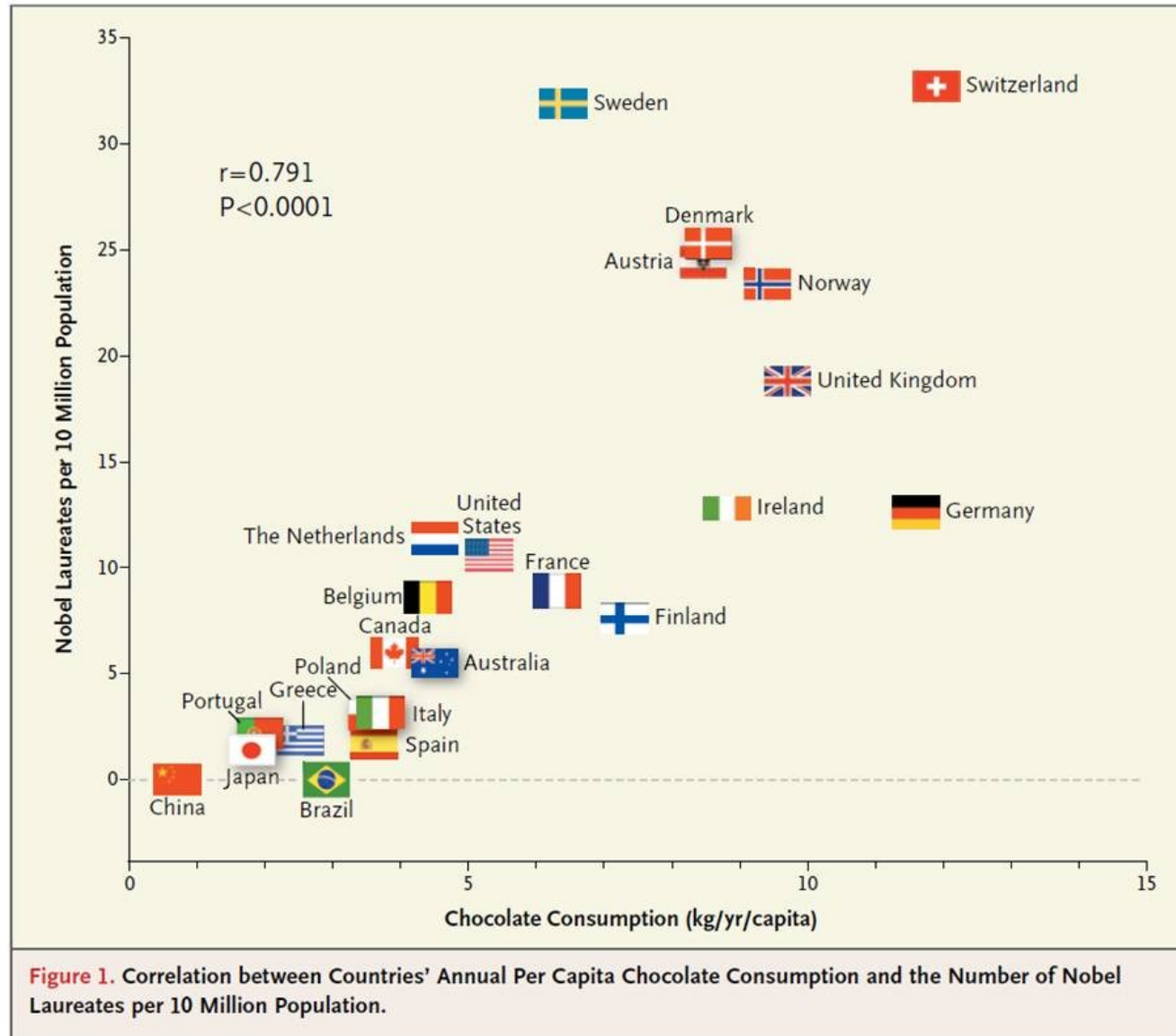


Figure 1. Correlation between Countries' Annual Per Capita Chocolate Consumption and the Number of Nobel Laureates per 10 Million Population.