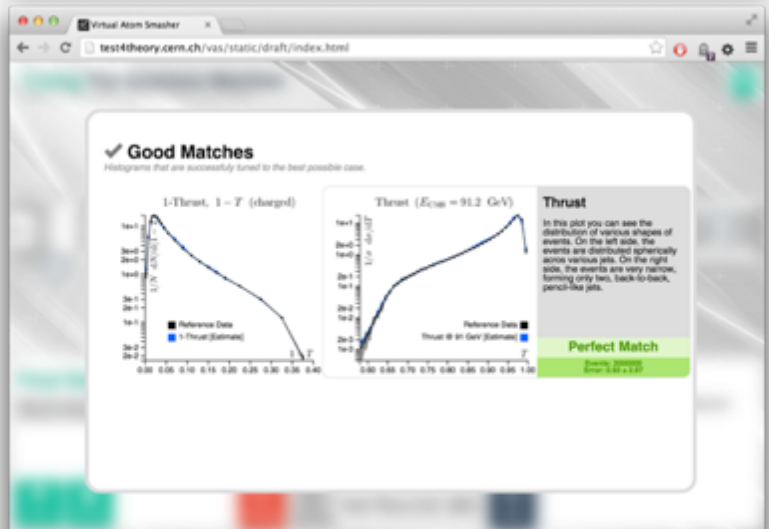
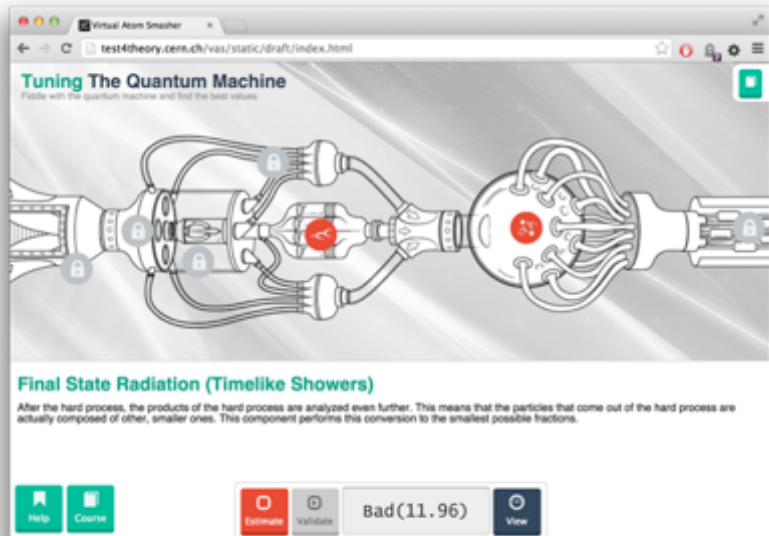




# Virtual Atom Smasher



Virtual Atom Smasher invites players to **take part in a real High Energy Physics** challenge: tuning the parameters of a theoretical model to fit experimental data from the LHC.

Players who achieve particularly good results will actually be **helping scientists improve their understanding of theoretical models**. The results may be used in future analysis.

On the way to achieving better agreement between theory and experiment, players are invited **to explore a quantum machine**, which represents all the steps involved in tuning a theoretical model.

Players can **learn about the underlying physics at every step of the game**, to different levels of detail. They can even contribute their own tutorials for other players to enjoy.

Virtual Atom Smasher is part of a European project to study learning and creativity in “citizen cyberscience”: online science projects for the general public. By participating, you will be **helping researchers to learn how to make better citizen science games**.

**Students from the International Masters Classes** are invited to sign up to be part of the alpha testers for this game, which will be launched in March: <https://test4theory.cern.ch/vas/>