

MadGraph Tutorial

I. Using The web

- D Register
 - □ As School indicates "Natal12"
 - Otherwise you will be réjected!!!

II. Diagram generation

- Draw by hand the diagram for the following process
 - $\Box gg > tt \sim$
 - □ pp > tt~
- O compare with MG
 - Do the same for pp > tt~jj

III. Order

- U What's the meaning of the order QED/ QCD
- U What's the difference between
 - p p > tt~
 - Opp>tt~QED=2
 - Opp>tt~QED=0

IV. Generation Syntax

☐ Generate the cross-section and the distribution for

□ pp > e+ e-

 $\Box pp > z, z > e + e$

□ pp > e+ e-\$z

 $\Box pp > e + e - /z$

V. Large generation

□ generate pp > w+jj

VI. Your computer

- 🗆 install madgraph5 on your computer
- 0 type./bin/mg5
- then type tutorial and follow instructions