

Introducing Myself and my activity:

Damiano Tommasini

ESR at University of Debrecen

LHCPhenonet Mid-Term meeting, Ravello - 2012

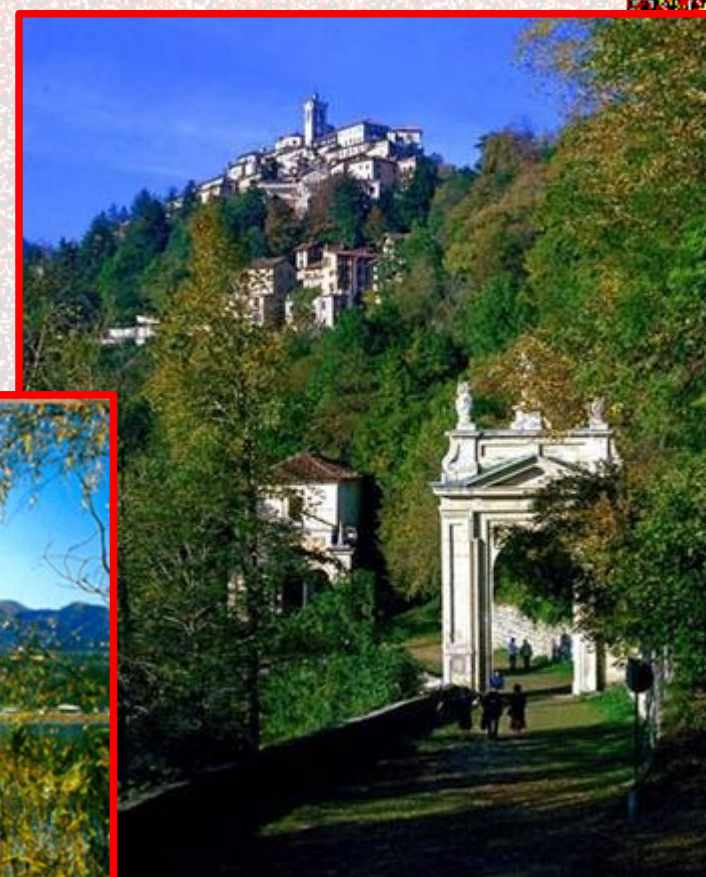
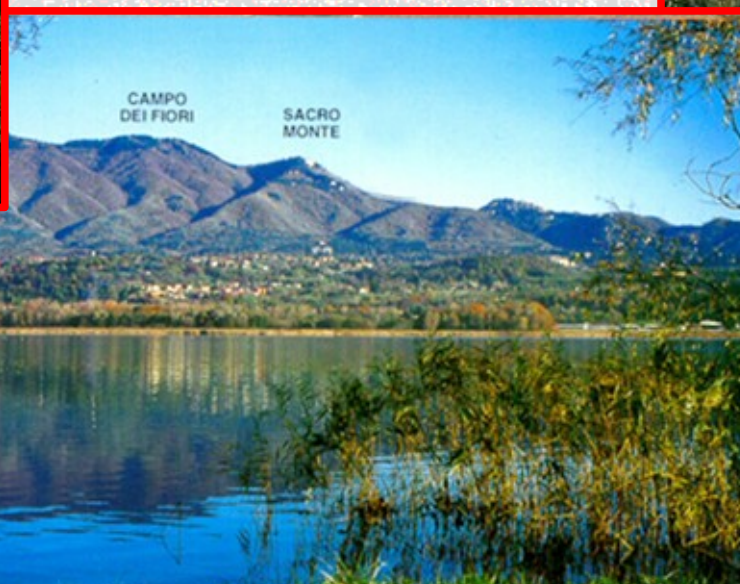


LHCphenonet



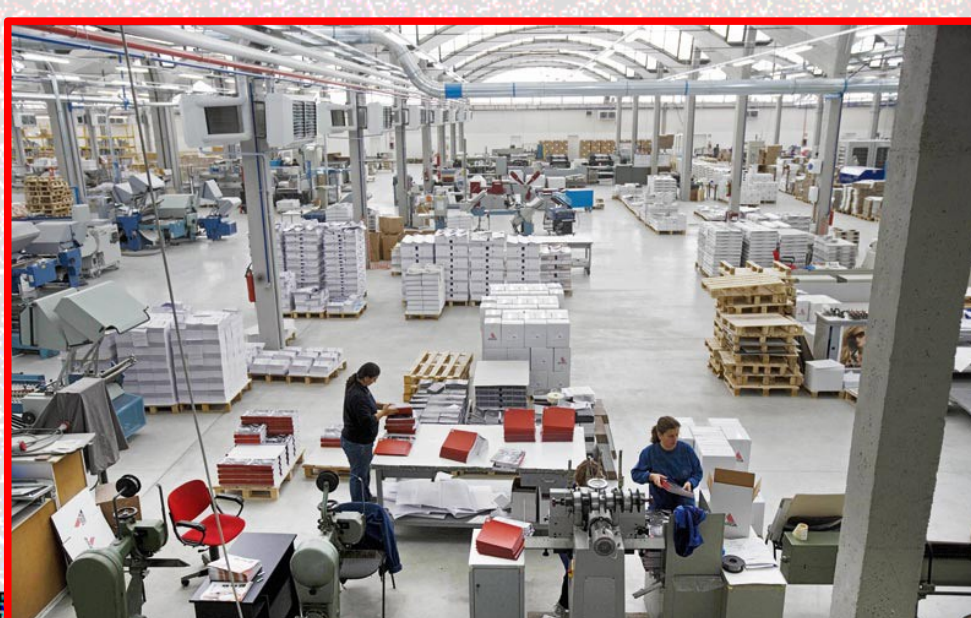
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- Born in Varese (north of Italy) in 1982
- Schools from 1988 to 2001 in Varese (high school for surveyor, technical institute)



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Tremendous turn in my life:

- Physics student at University of Milano-Bicocca from 2002 to 2006
 - ➡ Transfer from small village to “the city”: Milan
 - ➡ Jump from working-class to educated (and middle-class) environment

Scientific activity

- Master thesis with A. Carati and L. Galgani, at the Department of mathematics at University of Milan
 - ➡ Thesis keywords: Fractals, Galaxies distribution, Gravitational waves...
 - ➡ Very interesting and pedagogic topic...
but definitely out of nowadays hot topics in physics

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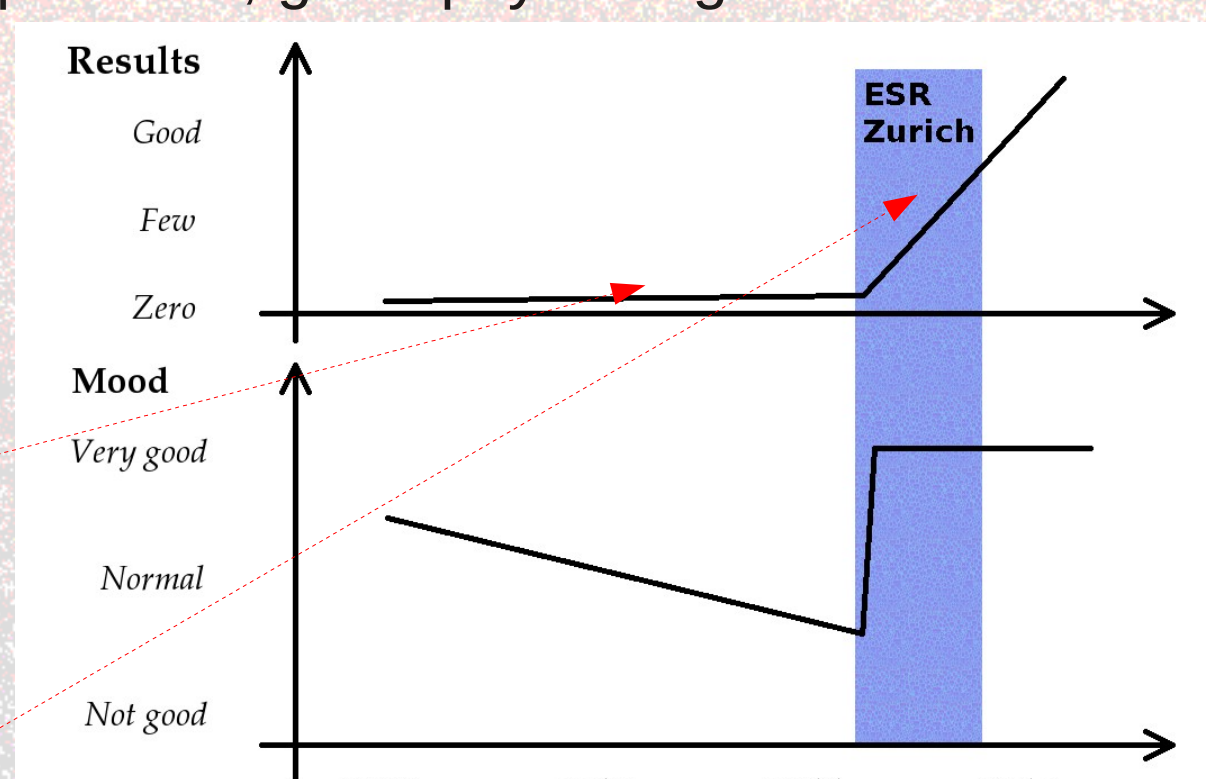
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- ESR at Univ. of Debrecen from May 2012 for one year
 - ➡ working on NNLO subtraction

Experience as ESR @ Zurich and results

- First international experience, great psychological and human growth

Difficulties in the starting, due to different background and experiences



New experience in a foreign country, different language, new colleagues, new contact with other physicist, new environment...

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- Two publications concerning the Higgs boson production [JHEP 1111 (2011) 064] and decay [JHEP 1206 (2012) 132] and two related numerical codes HqT2.0, HRes; plus Handbook of LHC Higgs Cross Sections: 2. Differential Distributions, CERN-2012-002 (2012), arXiv:1201.3084
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 - ➡ HqT used/cited by the ATLAS and CMS papers of the Higgs boson discovery!!!!
- Upgrade of the standard Italian PhD “Dottorato di ricerca” to the “Doctor Europaeus”, under the European University Association (in the context of “Bologna Process 1999”), see www.eua.be

http://www.eua.be/eua/jsp/en/upload/doctoral_programmes_project_report.1129285328581.pdf

Experience as ESR @ Debrecen

- Second international experience, further good occasion to grow and learn
- Studying NNLO techniques in $e^+e^- \rightarrow 3\text{jets}$
- Implementation of the results in a numerical code, starting from the double virtual corrections

Conclusions: achieved goals in the ESR experiences

- Personal and scientific grow
- Two scientific papers published + ...
- International expertise
- Experienced programmer
- PhD: Doctor Europaeus

Good to continue
scientific career

Good for industries
and companies

Conclusions: achieved goals in the ESR experiences

Without ESR

- ~~Personal and scientific grow~~
- Two scientific papers published + ... ??
- ~~International expertise~~
- ~~Experienced programmer~~
- PhD: ~~Doctor Europaeus~~

Good to continue scientific career

Good for industries and companies