

Something about myself

Born in a small town: Poggibonsi (Italy)

I lived there until...



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BSc in 2014: Università degli Studi di Siena Work: CMS+TOTEM









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MSc in 2017: Università degli Studi di Pisa Work: Belle II





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BSc in 2014: Università degli Studi di Siena Work: CMS+TOTEM









PhD in 2021: Università degli Studi Roma Tre Work: Belle II

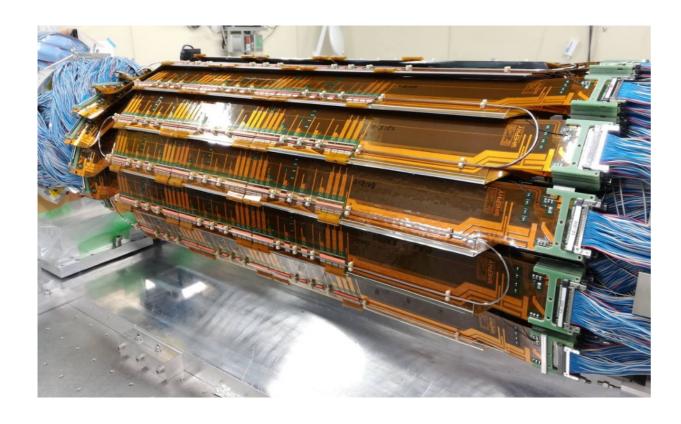


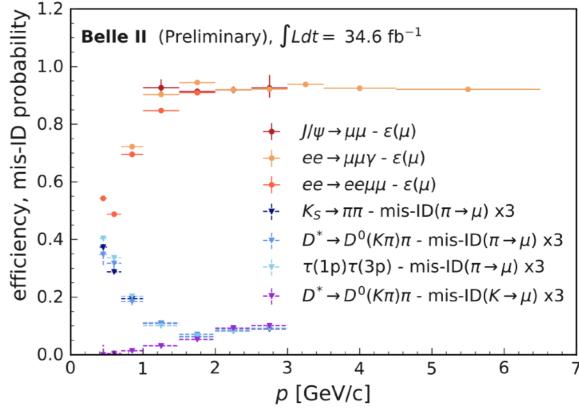


Some more details

- First electron optimisation using T2 tracker (TOTEM) + CASTOR calorimeter (CMS)
- First sensitivity study @Belle II of TDCPV on $B^0 o K_S^0 \pi^0 \gamma$ (Belle II Ph.Book)
- Mounting, characterisation, test, shipment and simulation of Belle II Silicon Vertex detector
- Software development + performances studies of the μ identification @Belle II
- First Belle II physics <u>publication on Z'</u> invisibly decaying: $e^+e^- \to \mu^+\mu^-(e^\pm\mu^\mp)Z'$
- Analysis search of the LFV $\tau \rightarrow 3\mu$ decay @Belle II: $e^+e^- \rightarrow \tau[\rightarrow 3\mu] \quad \tau[\rightarrow 1prong]$

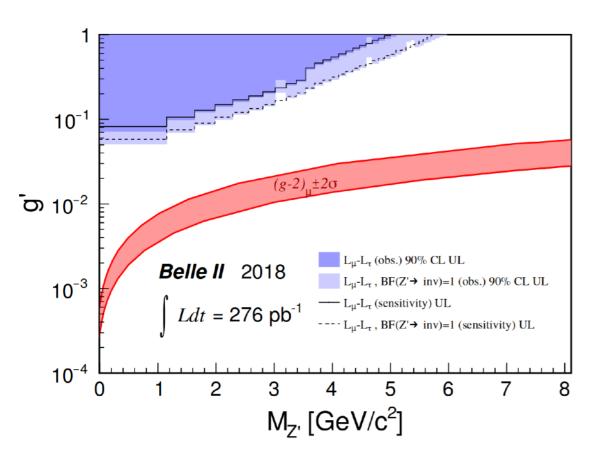
 $0.82 \le \theta < 1.16 \text{ rad, muonID} > 0.9$

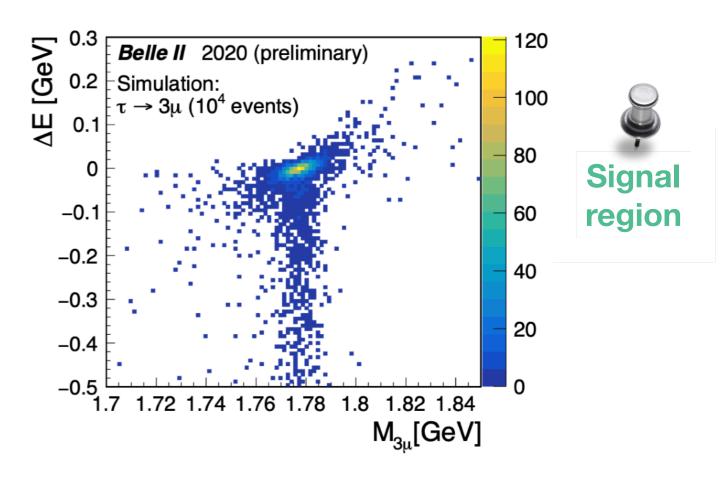




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What about today?



I arrived in the "sunny" Hamburg in April 2021 → fellow of the Belle II experiment

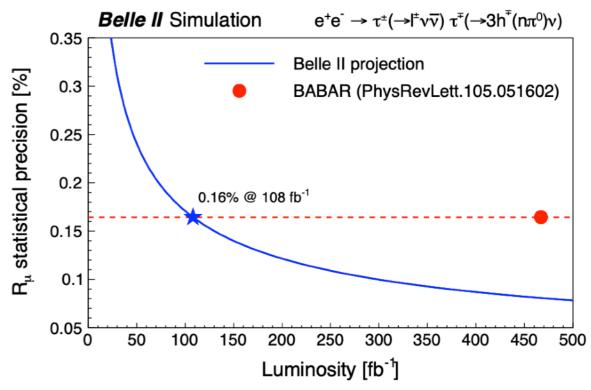


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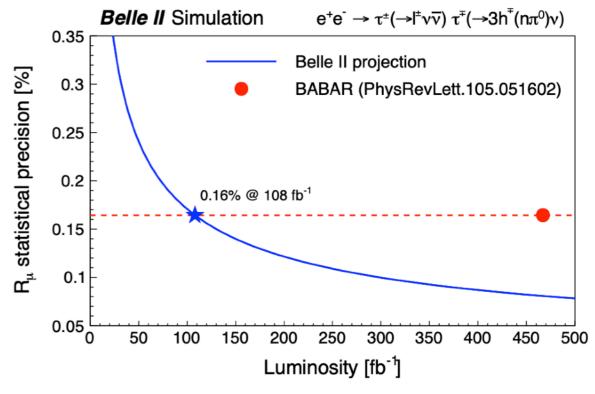
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- Serving as MC manager → taking care of producing MC for the collaboration.. sometimes it is really tough!

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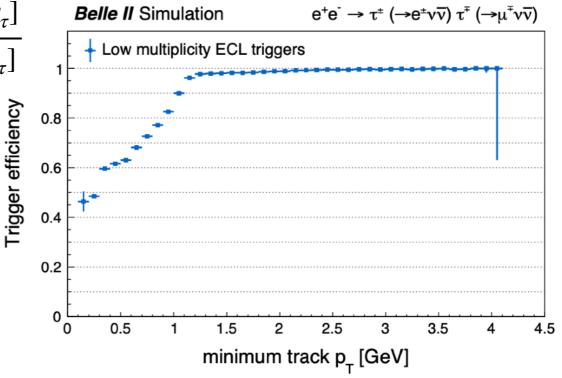
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- Serving as MC manager → taking care of producing MC for the collaboration.. sometimes it is really tough!
- Trigger and PID performances + development



My favourite plot

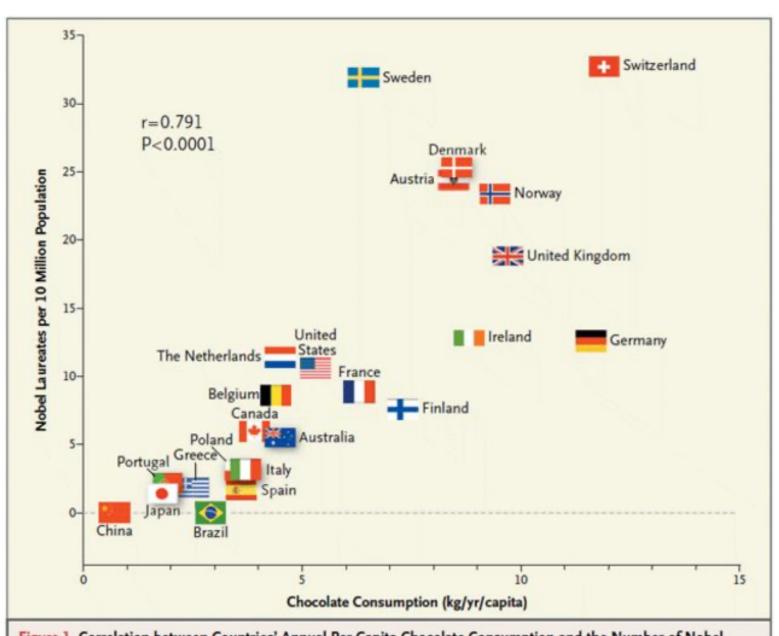


Figure 1. Correlation between Countries' Annual Per Capita Chocolate Consumption and the Number of Nobel Laureates per 10 Million Population.

My favourite plot

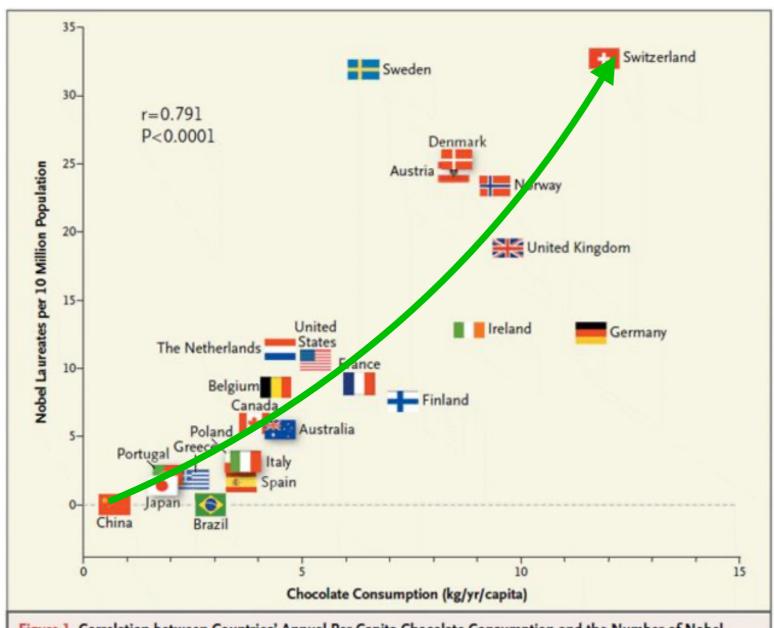
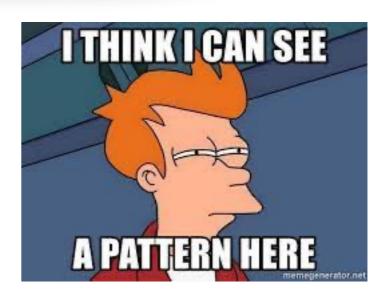


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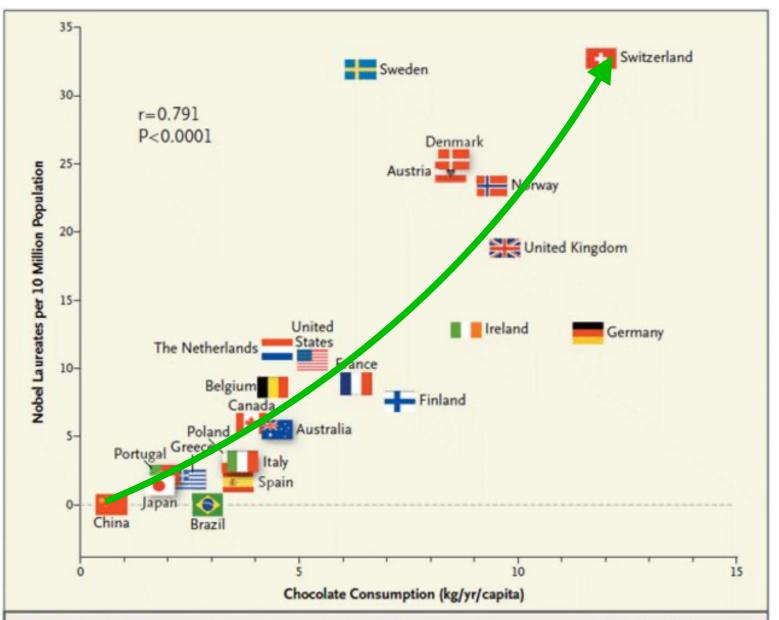


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