ENP: Exploring New Physics

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The research topics investigated within the ENP project concern the phenomenology of present and future colliders, taking particular care about new physics signals at the LHC.

The main achievements are summarized in the following publications:

1. G. Corcella, C. Corianó, A. Costantini and P.H. Frampton, *Bilepton signatures at the LHC*, Phys. Lett. B773 (2017) 544.

2. P. Azzi, G. Corcella et al, *Physics Beyond Precision*, arXiv:1703.01626 [hep-ph], contribution to the FCC-ee mini-workshop, CERN, February 2016.

2. G. Pancheri and Y.N. Srivastava, *Introduction to the physics of the total cross-section at LHC : A Review of Data and Models*, Eur. Phys. J. C77 (2017) 150.

3. O. Panella, R. Leonardi, G. Pancheri, Y.N. Srivastava, M. Narain and U. Heintz, *Production of exotic composite quarks at the LHC*, Phys. Rev. D96 (2017) 075034.

4. D.A. Fagundes, A. Grau, G. Pancheri, O. Shekhovtsova, and Y.N. Srivastava, *Inelastic cross section and survival probabilities at the LHC in minijet models*, Phys. Rev. D96 (2017) 054010.

5. V. Del Duca, E. Laenen, L. Magnea, L. Vernazza, C.D. White, *Universality of next-to-leading power threshold effects for colourless final states in hadronic collisions*, JHEP 1711 (2017) 057.