Portoroz 2015: Particle Phenomenology From the Early Universe to High Energy Colliders



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Of Contact Interactions and Colliders (why not fit form factors?)

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At the LHC, New Physics could be better parametrised with form factors than with contact interactions, if the New Physics scale is similar to the LHC energy. As a toy example, I consider the process pp -> l+l-, fit the high-energy tail to a function, and show that the resulting limits can be analytically translated to a wide variety of models (no event simulation required).

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