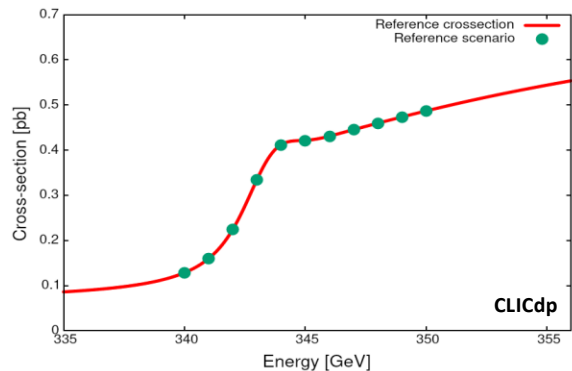
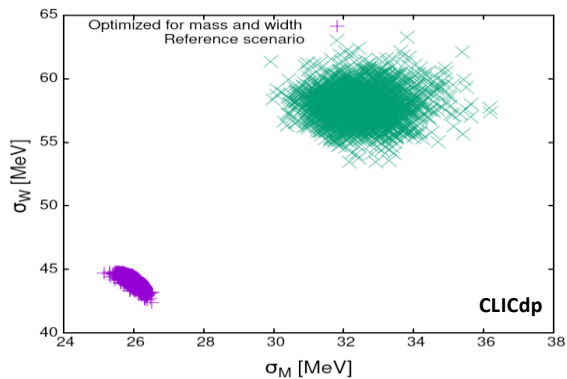


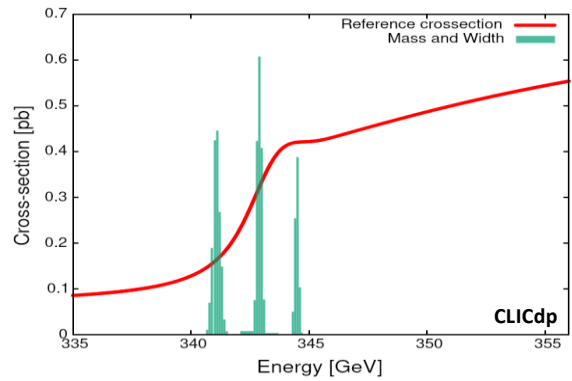
Default scenario (10 points with 1 GeV step) to be optimised by **genetic algorithm**. Total luminosity is always constant and equal 100 fb^{-1}



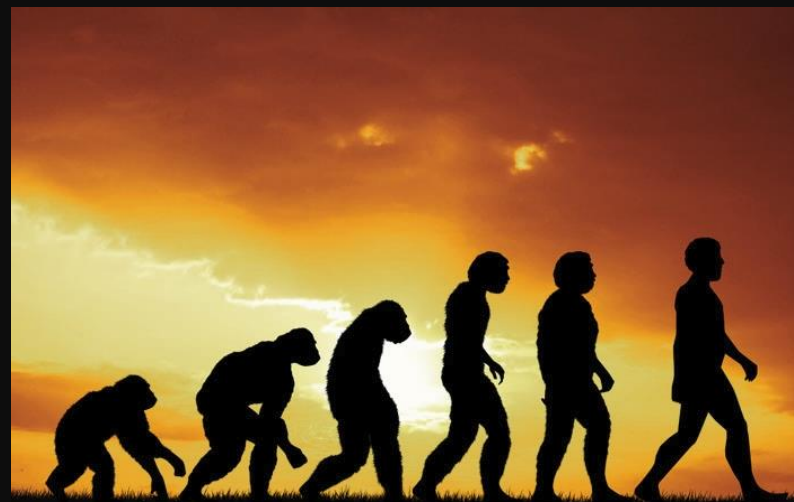
Given parameters to optimise, eg. **mass and width**, it returns a set of optimal scan scenarios



Scan points for optimal scenarios constrained to regions most sensitive to given parameters.



Optimising top-quark threshold scan at CLIC using genetic algorithm

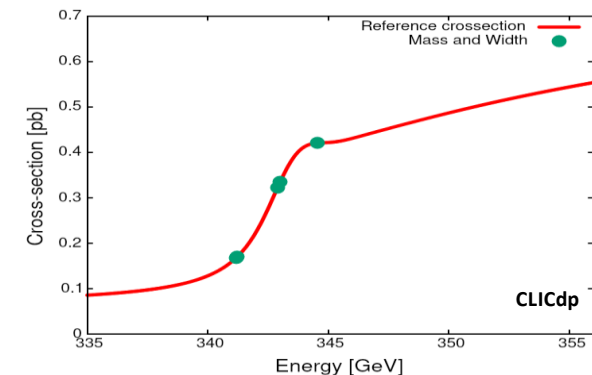


Top quark mass statistical uncertainty can be reduced by 20% by rearranging measurement points

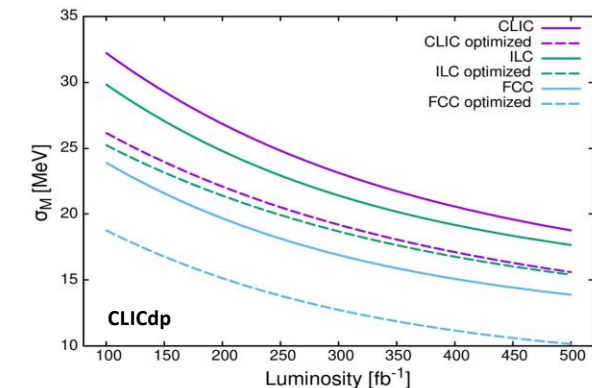
K. Nowak A.F. Żarnecki University of Warsaw

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For the best scan scenario, 10000 pseudo-experiments were generated to validate results



Scenarios were optimised for **CLIC, FCC, ILC**. In each case improvement for **mass** is **~20%**



Optimised scenarios reduce **width** uncertainty by **~15%** at the same time

