Mass De Higgs-logía (free adaptation from Latin: "Discussion on the Higgs") Mass Mass

Luca Merlo









Status and Prospects for the SM Higgs

Donega Fuentes-Martin Canelli Brivio

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2 or more Higgses



Perdomo Karkkainen Houtz Carena

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Not necessarily the SM Higgs, but similar...

> Garcia-Garcia Carena



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2 or more **Higgses**





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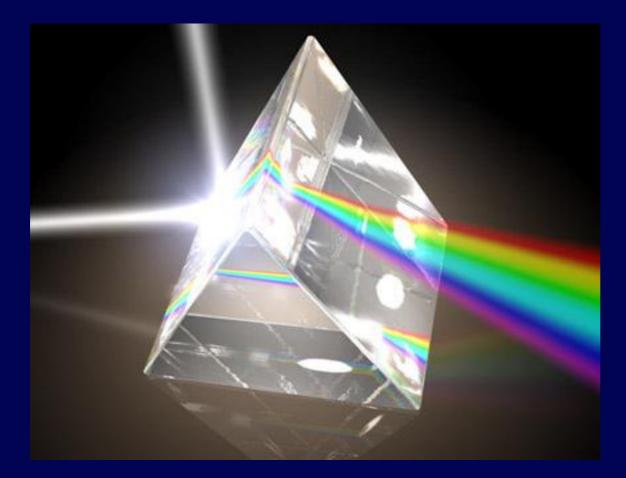
...how much?

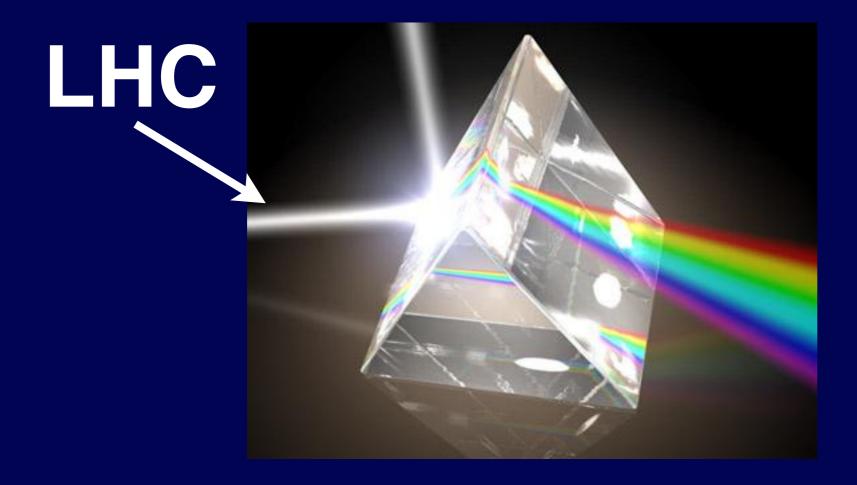


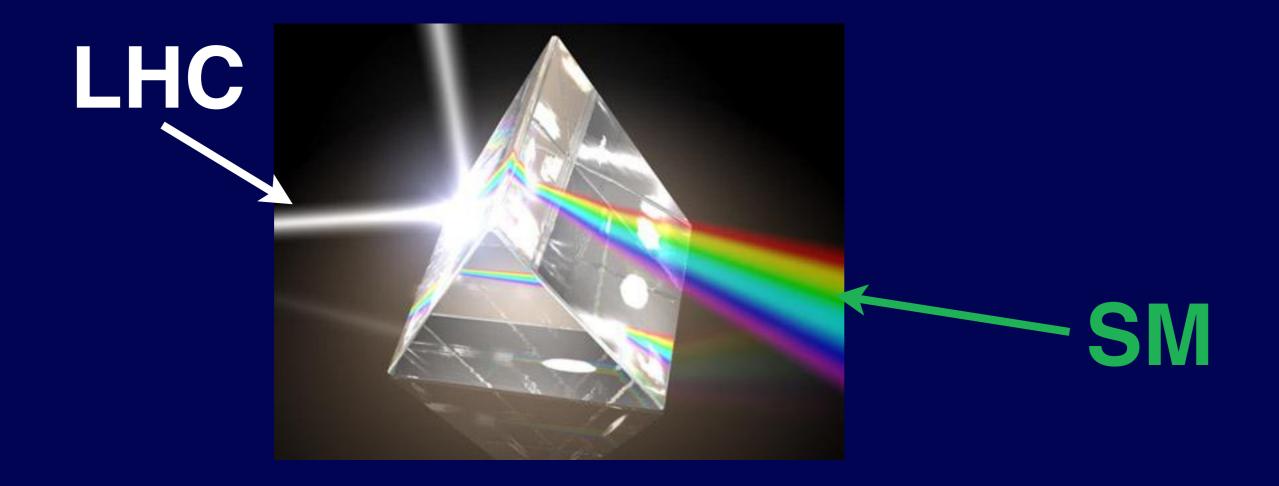


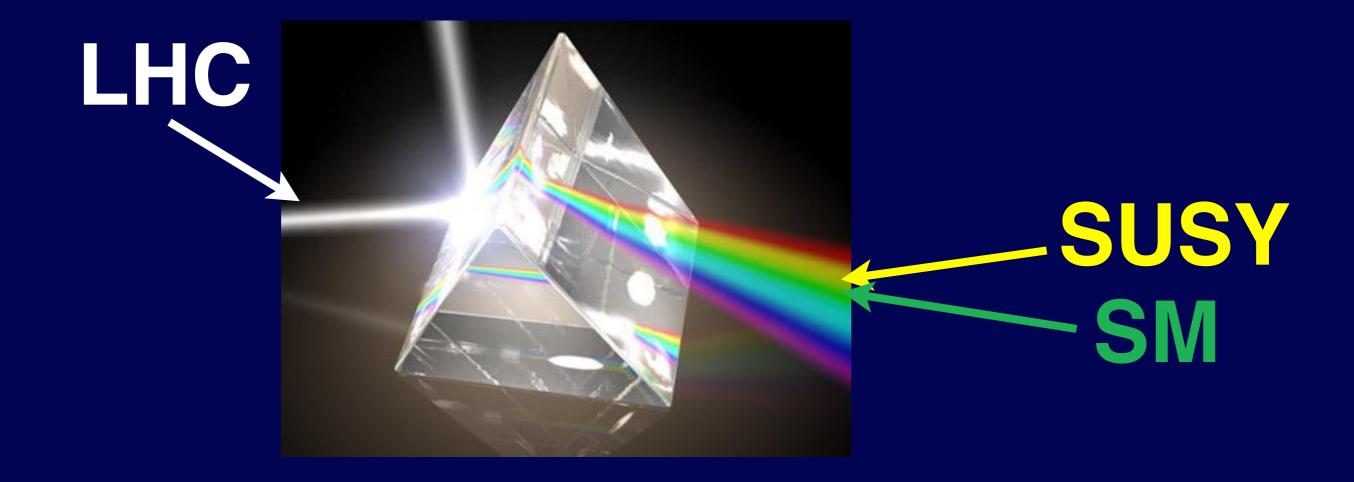


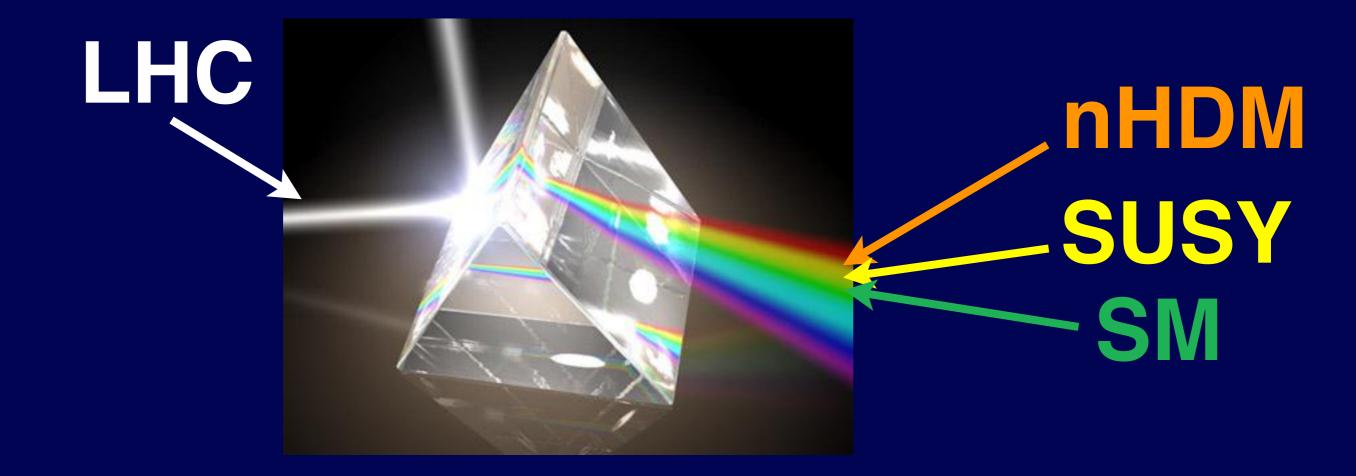


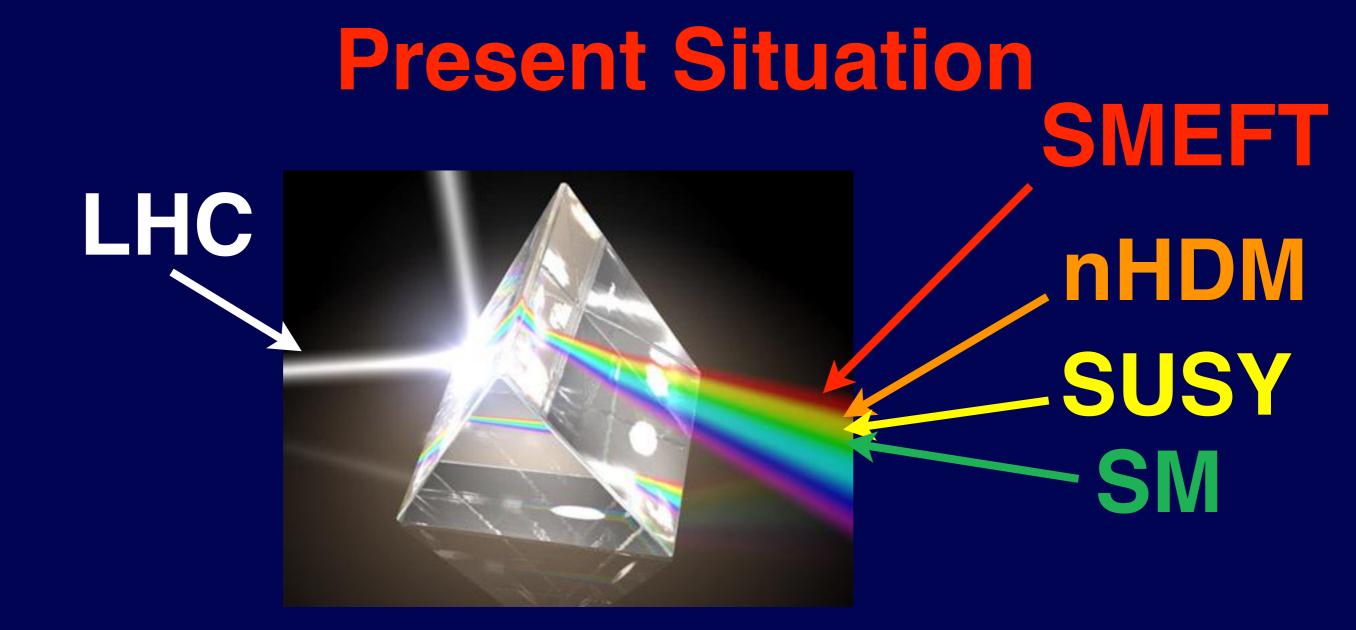


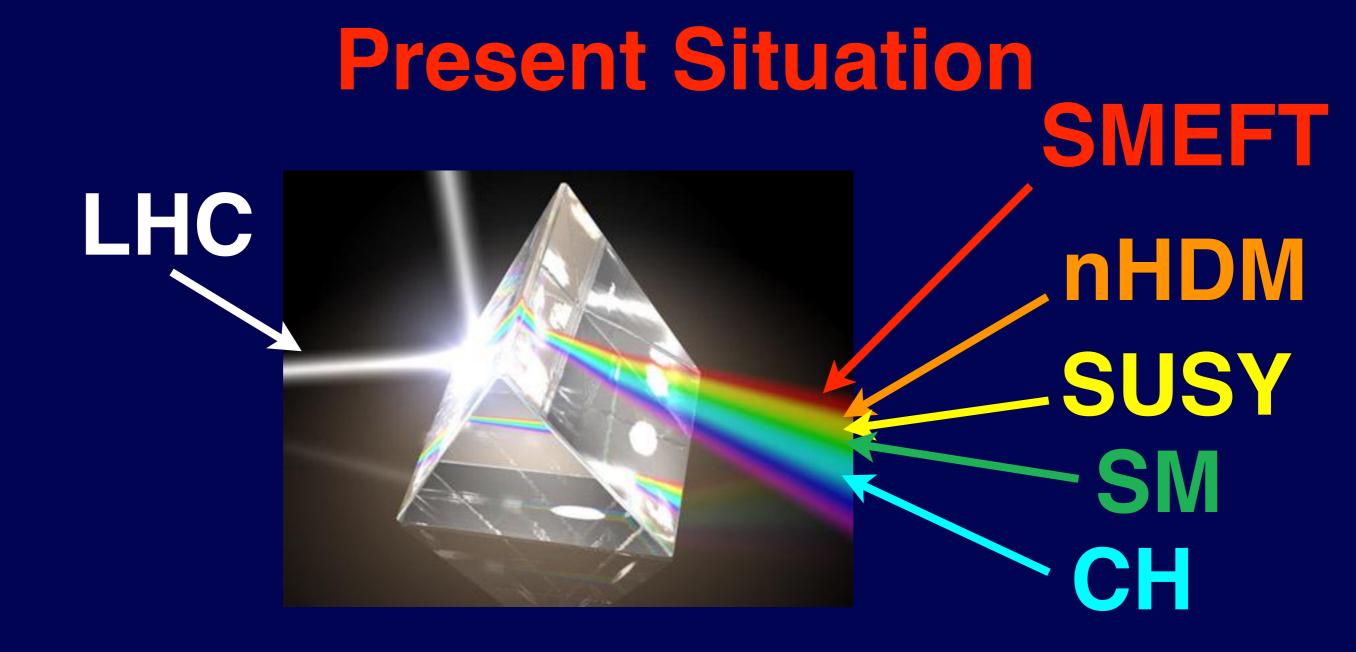


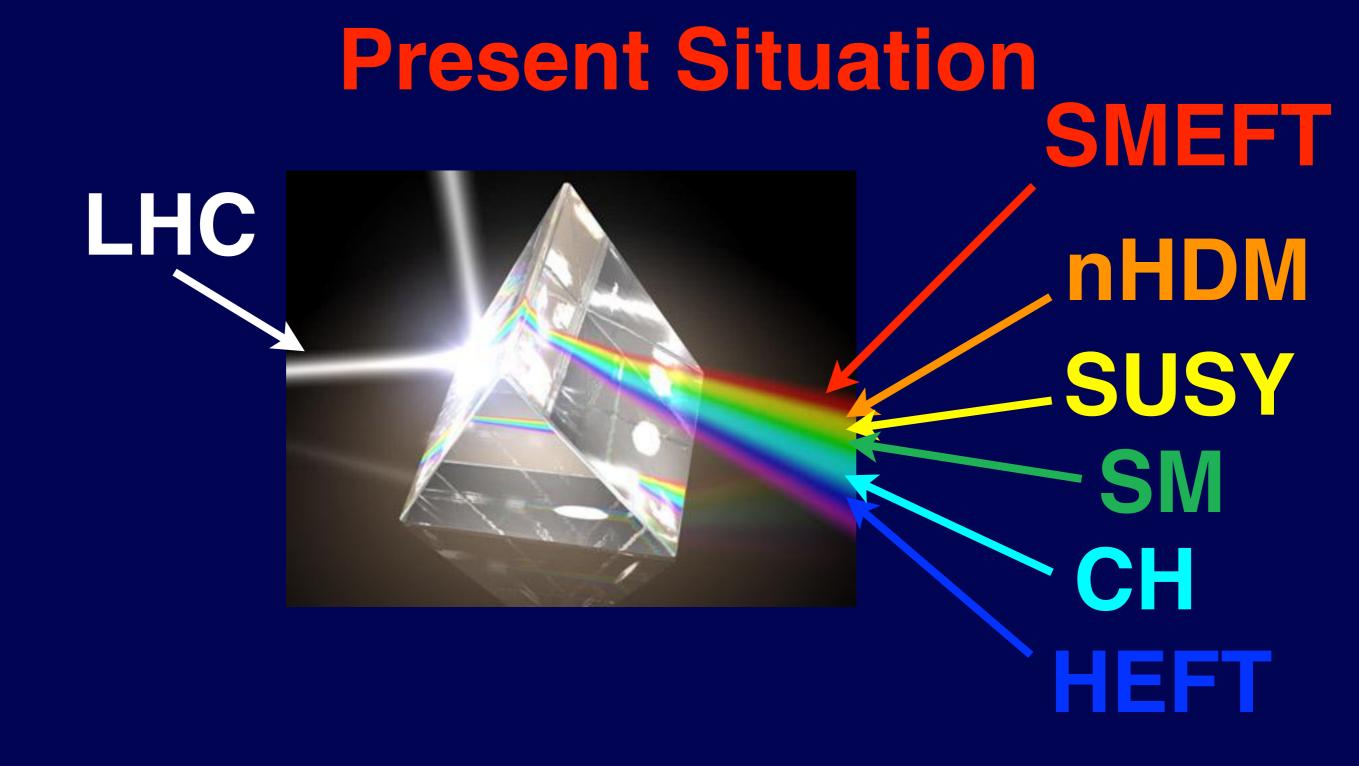


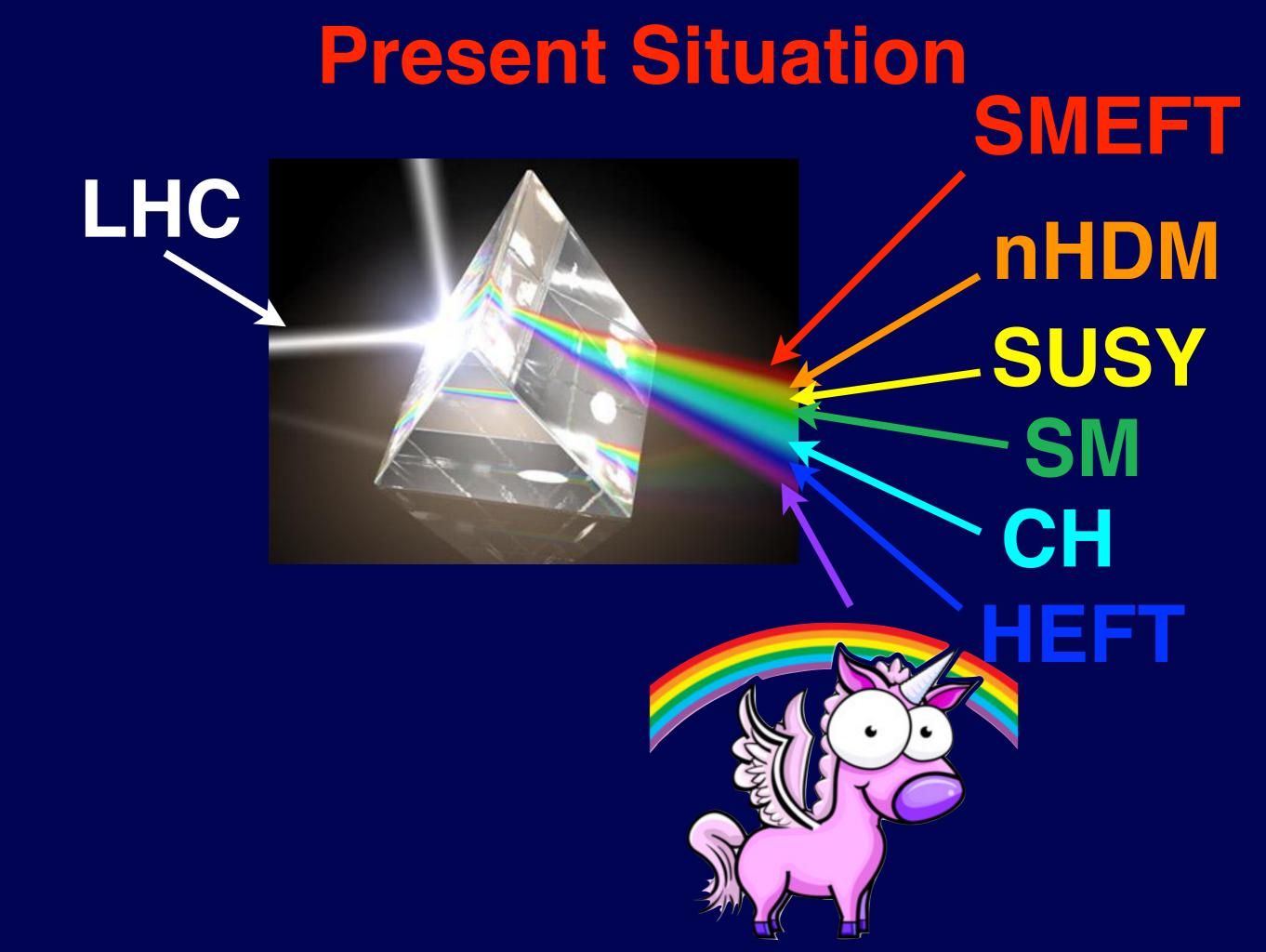












Which are the most important couplings to disentangling THE Higgs? Which are the most important couplings to disentangling THE Higgs?

Y's coupling h self couplings pure-gauge couplings Which are the most important couplings to disentangling THE Higgs?

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Timescale to have a definitive (??) understanding?

Which are the most important couplings to disentangling THE Higgs?

Y's coupling h self couplings pure-gauge couplings

Timescale to have a definitive (??) understanding?

Which is the best machine for it?

Which are the most pressing questions <u>experimentalist</u> want to make to <u>theoreticians</u>? Which are the most pressing questions <u>experimentalist</u> want to make to <u>theoreticians</u>?

Which observables need more theory precision?

Which are the most pressing questions <u>experimentalist</u> want to make to <u>theoreticians</u>?

Which observables need more theory precision?

What should theoreticians do, but they are not doing?

Without a clear UV picture























