

Questions from the discussion of the Higgs exclusion plot

1. Does the Higgs boson carry a color current? Why or why not? **(Anton)**
2. How does the Higgs boson acquire mass? **(Azamat)**
3. What is a Goldstone boson and how is it different from the Higgs boson? **(Harsha)**
4. How is the Higgs boson different from other bosons (*e.g.* the W and Z boson)? **(Sushil)**
5. Why is a Higgs mass of more than 200 GeV excluded? What is the data and the theoretical assumptions that drive this high-mass exclusion? **(Ken)**
6. The plot shown in Bing's talk (similar to the plots shown in the links pr1 and pr2 articles on the website) had green and yellow regions with SM=1 plotted. What do the colored regions mean and what do the black curves mean on this plot? **(Nowo)**
7. What is the meaning of "confidence limit"? What does it mean to say that something is excluded at the 95% confidence limit? (Give an example from probability theory.) **(Shamim)**
8. What's the importance or special use of the Higgs boson? **(Chen)**