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 prl1 and prl2 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)