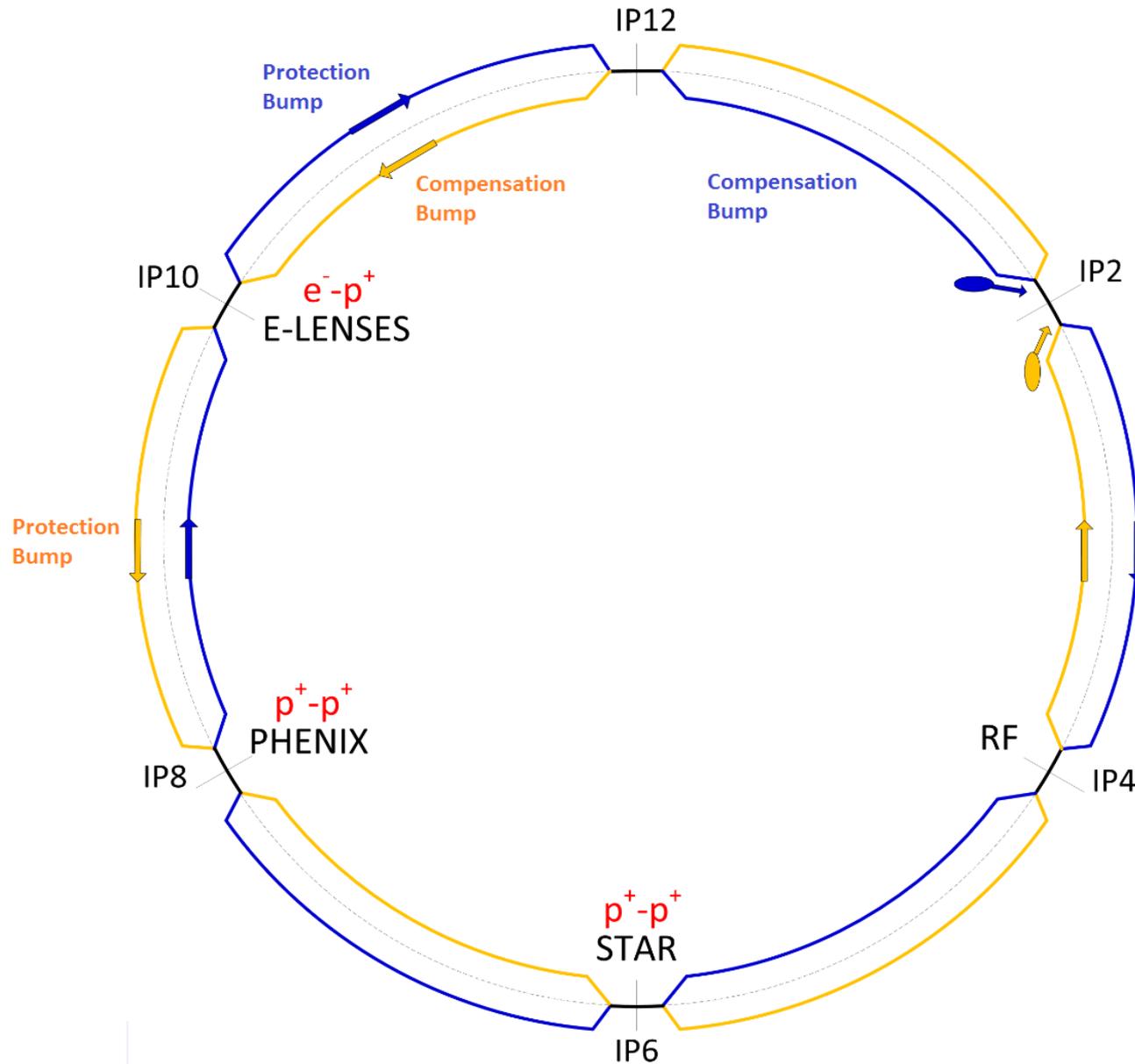
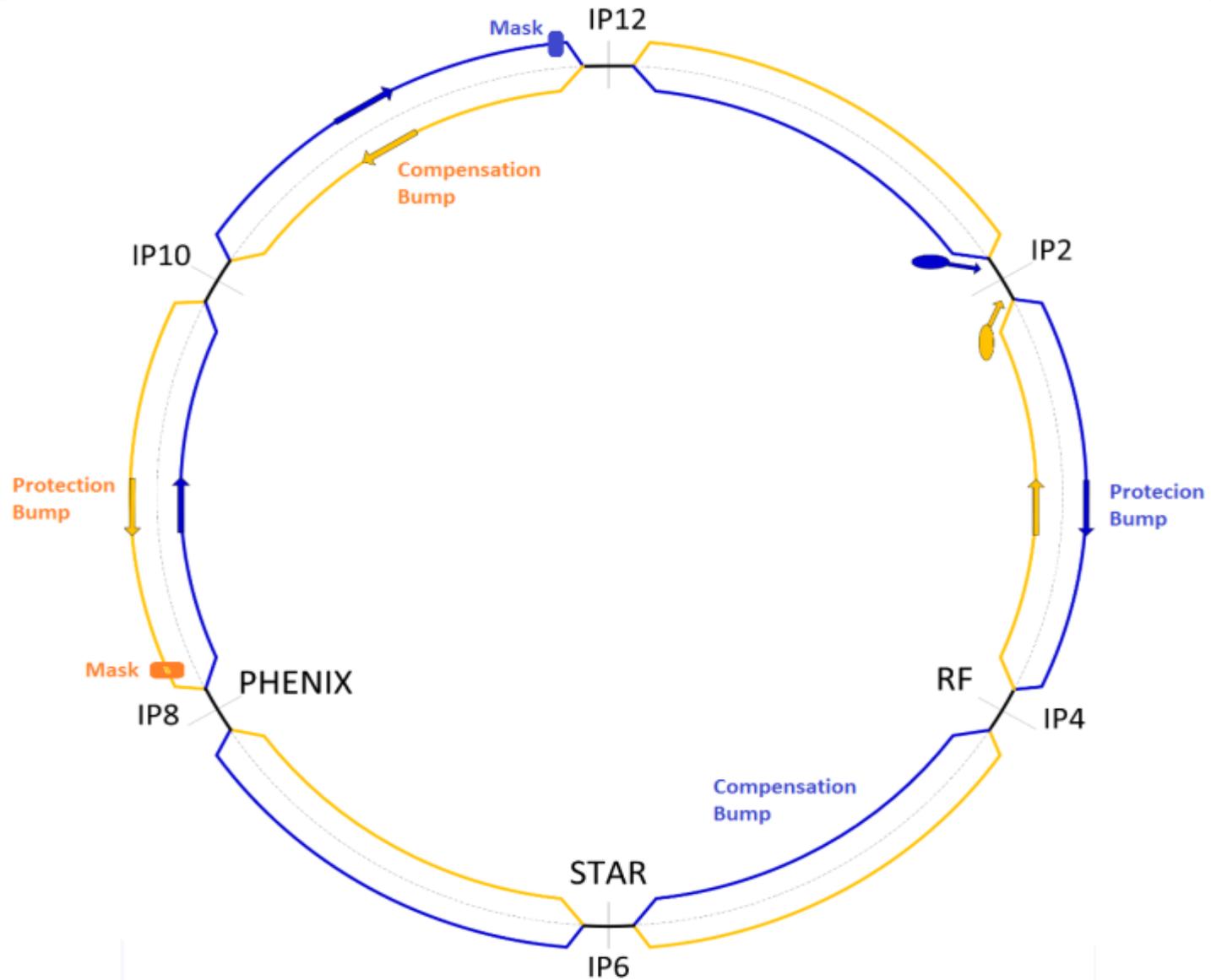


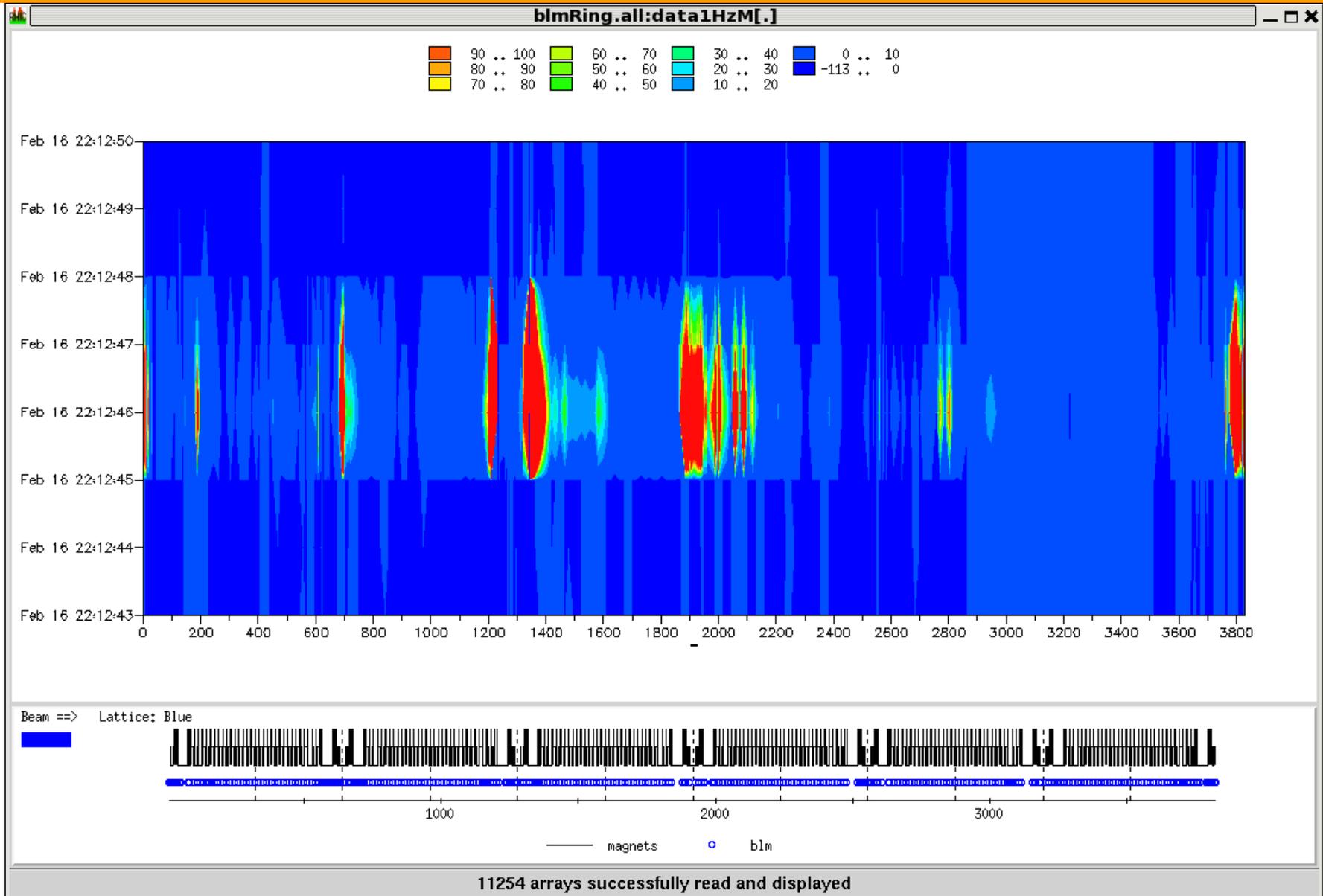
Old Bump Location



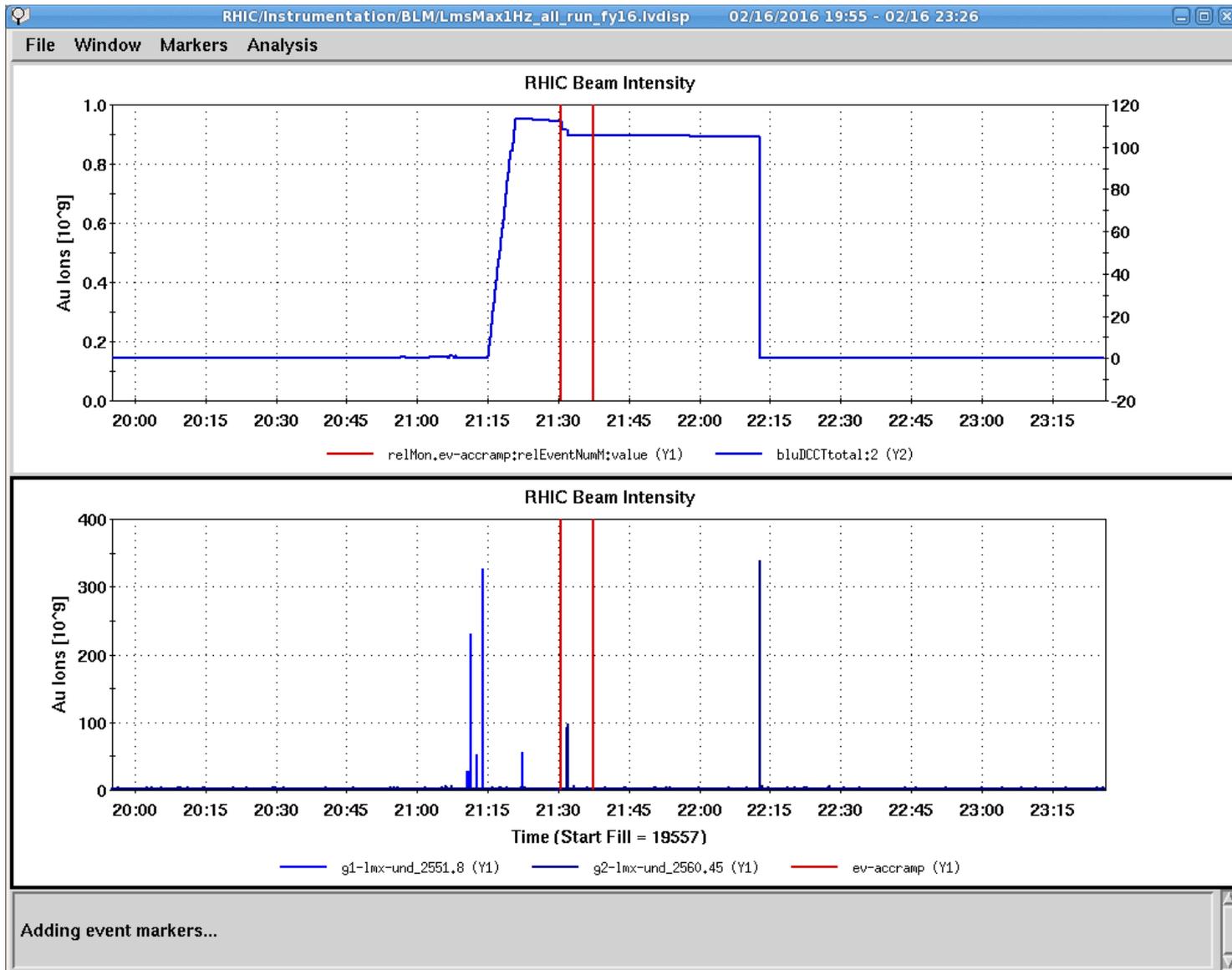
New Bump Location



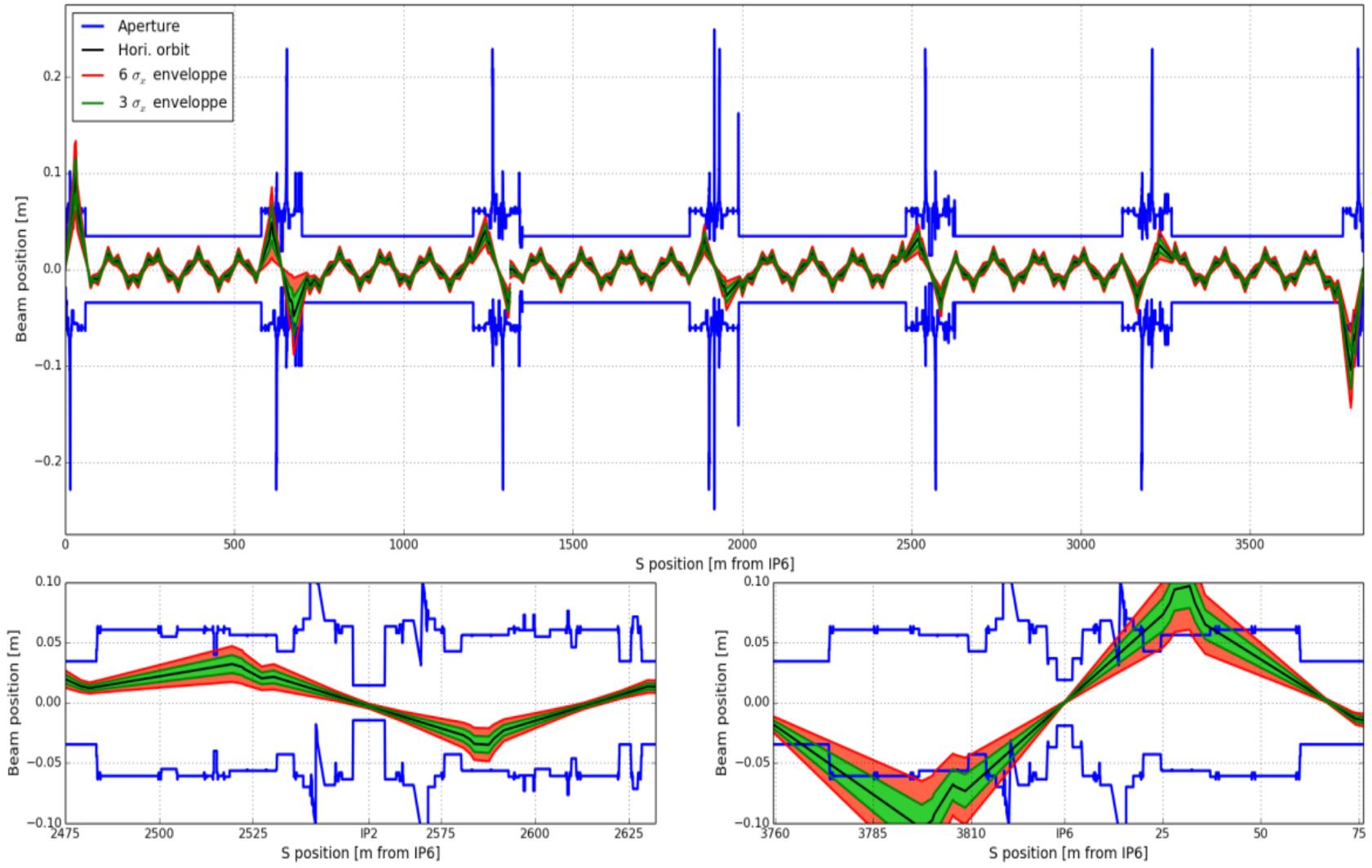
Pre-fire test and beam loss at IR2



Pre-fire test and beam loss at IR2



6 sigma beam envelope with 100% module strength



1. the protection bump located between IR2 and IP4, and the compensation bump located between IR4 and IR6.
2. This configuration provides **same protection** as before for STAR.;
3. With this configuration, **no more/additional risk** for CeC wiggler is found, based on the pre-fire test with halved bumps before IR2, as well as the 6 sigma beam size beam envelope at IR2 with one abort kicker module at 100% strength.
4. The planned push of the beam orbit closer to the blue mask could further **reduce the risk** of both CeC wiggler, as well as protection bump area.