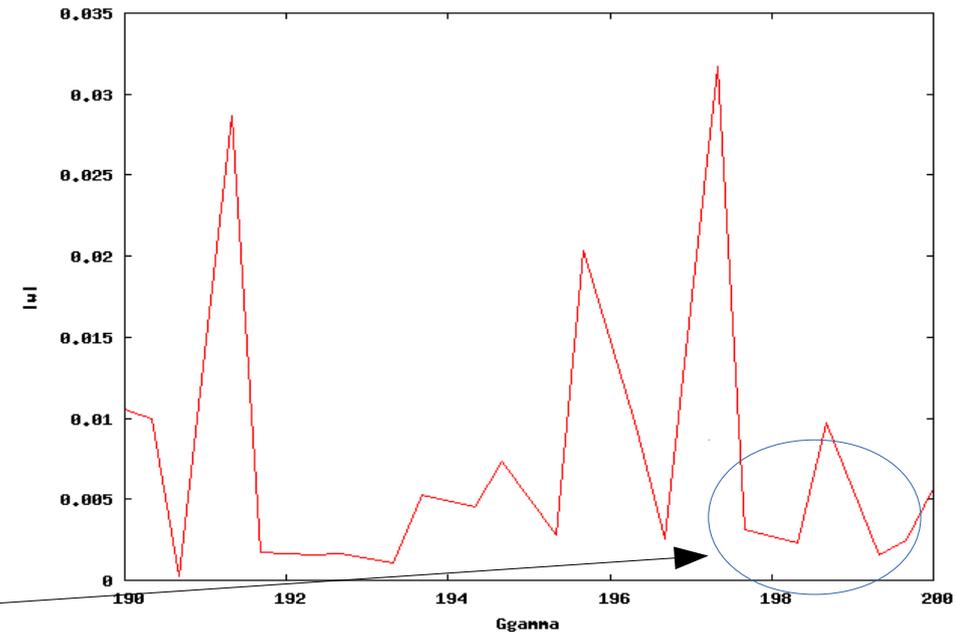
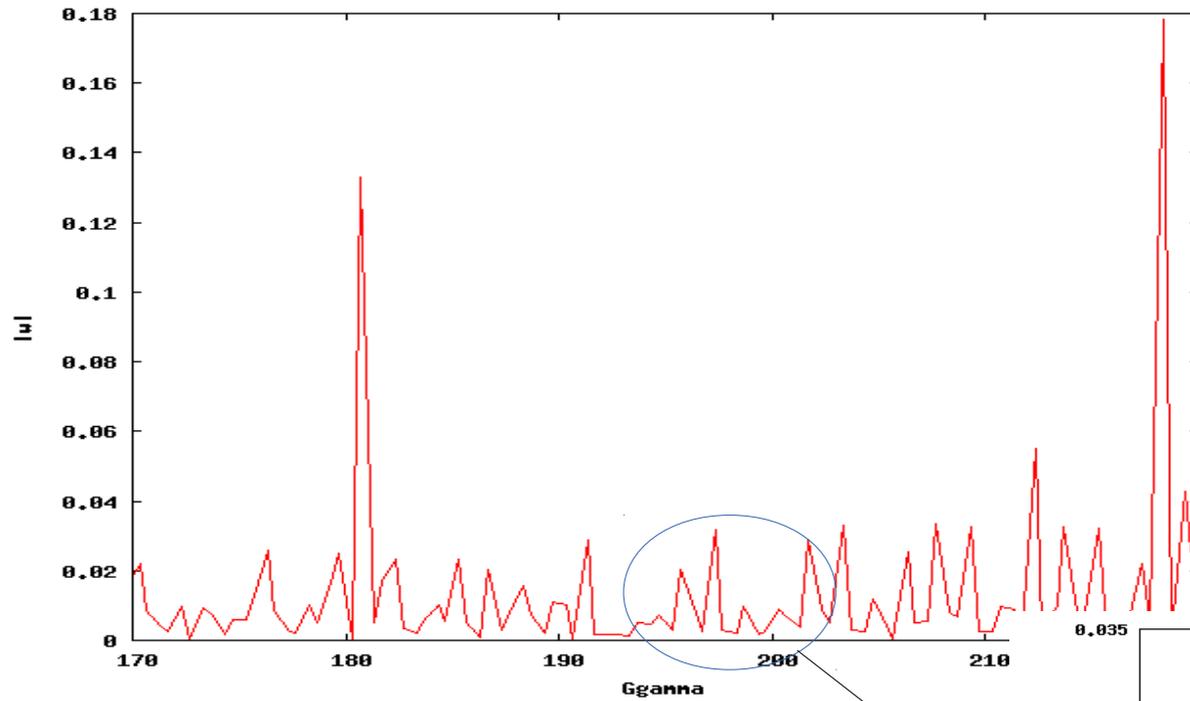


Picking Collision Energy for p-Au

- Pick energy we have best chance of maximizing Polarization lifetime.
- Hard to say for 'sure' since we don't have a good theory for Polarization lifetime yet.
 - Safe to say it should correlate with strength of spin resonances.
 - So we looked at Spin resonance:

Intrinsic Polarization Structure

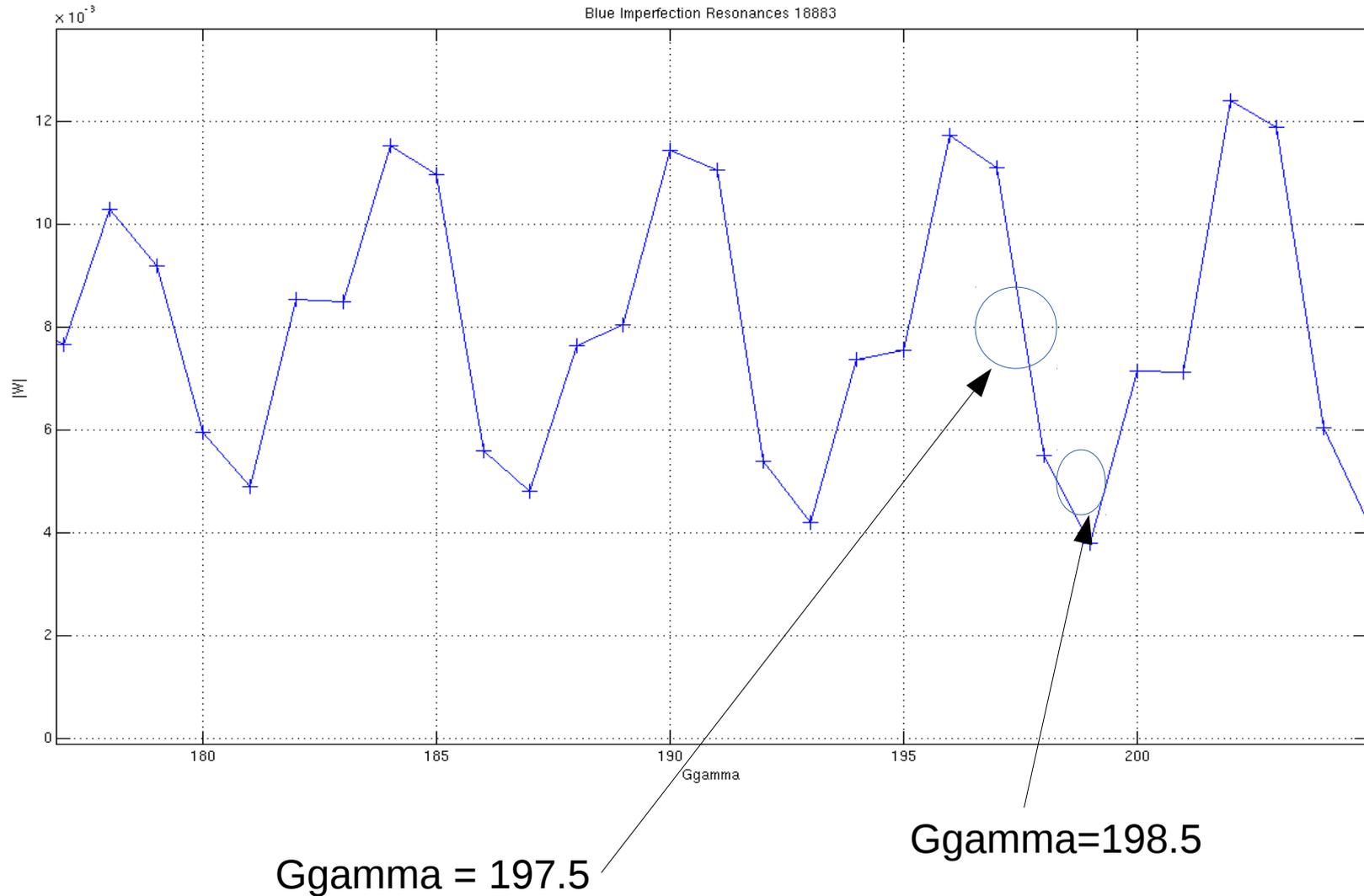


Probably Better over here

Imperfection Resonances?

- Need to estimate this effect as well
 - More difficult: So we estimate it by taking difference orbit between design and measured at collision. Then calculating corrector settings which produce this same orbit. Finally run DEPOL on this new lattice with error to calculate our imperfection resonances

Blue Imperfection Resonance



So it also appears better from an Imperfection Resonance point of view

Also stable spin direction a bit more vertical.

