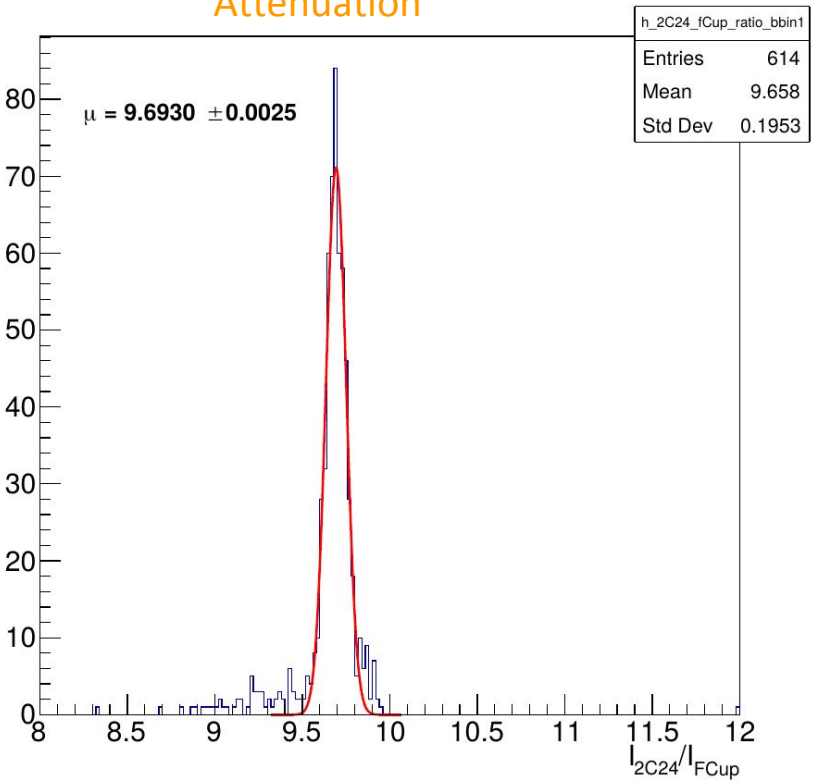
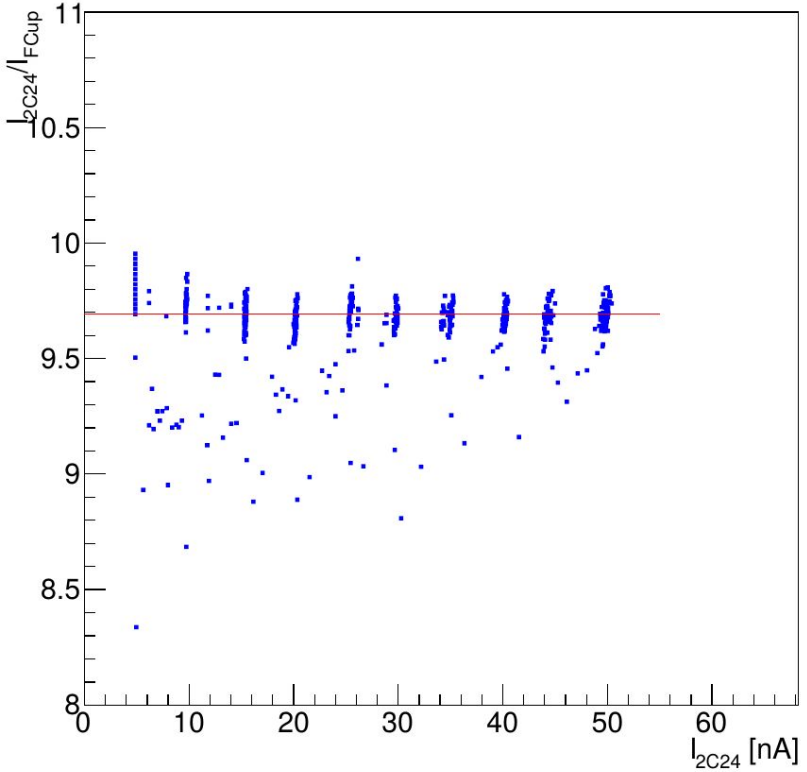
The beam attenuation measurement with 10.4 GeV beam: LD2 target

Two measurements were done with empty and Full targets

Attenuation



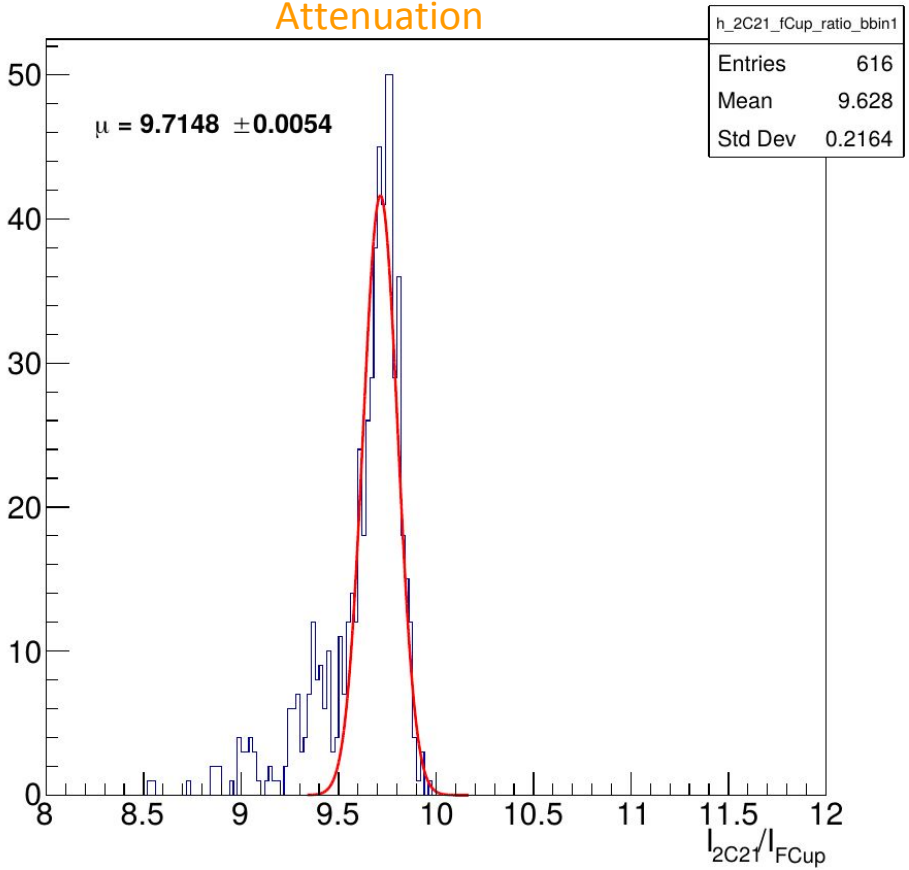
Attenuation vs Beam current



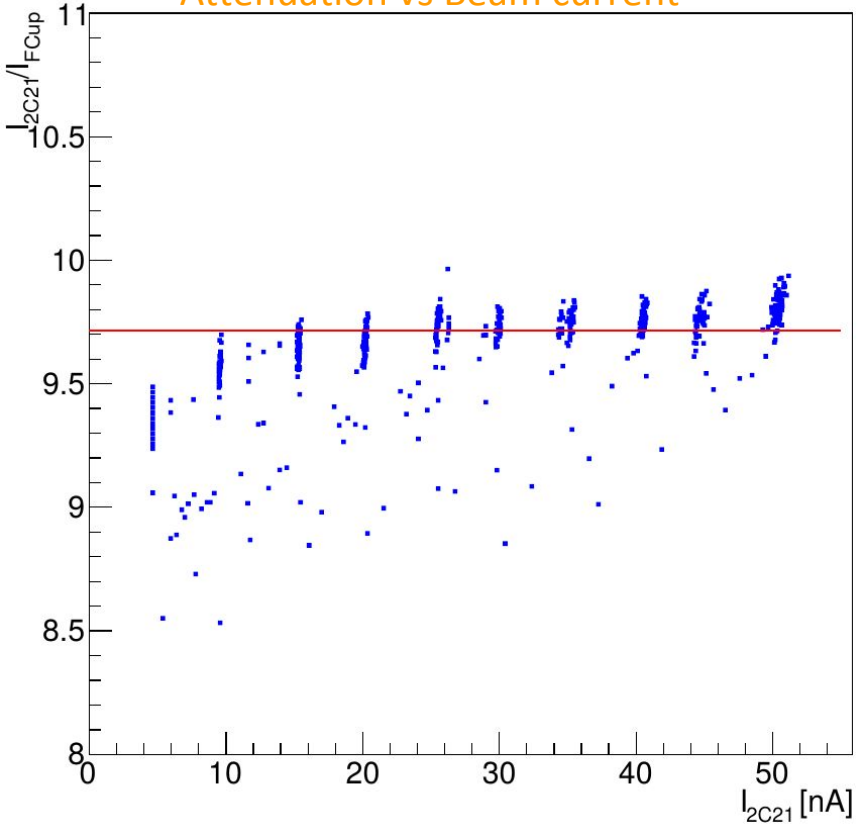
The beam attenuation measurement with 10.4 GeV beam: LD2 target

Unlike to 2C24, the 2C21 is not at plato above 20nA. It was chosen to use the 2c24 value: 9.69298

Attenuation



Attenuation vs Beam current

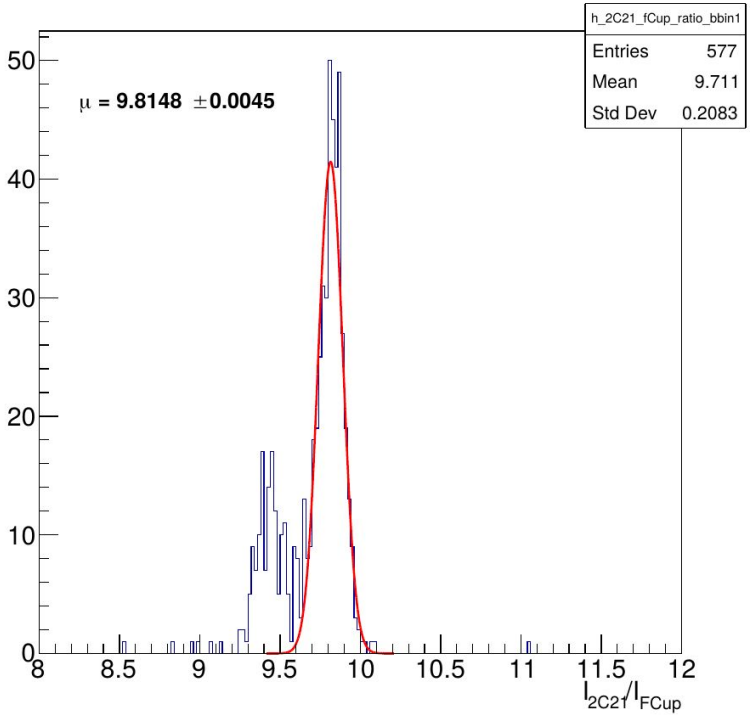


The beam attenuation measurement with 10.4 GeV beam: Empty target

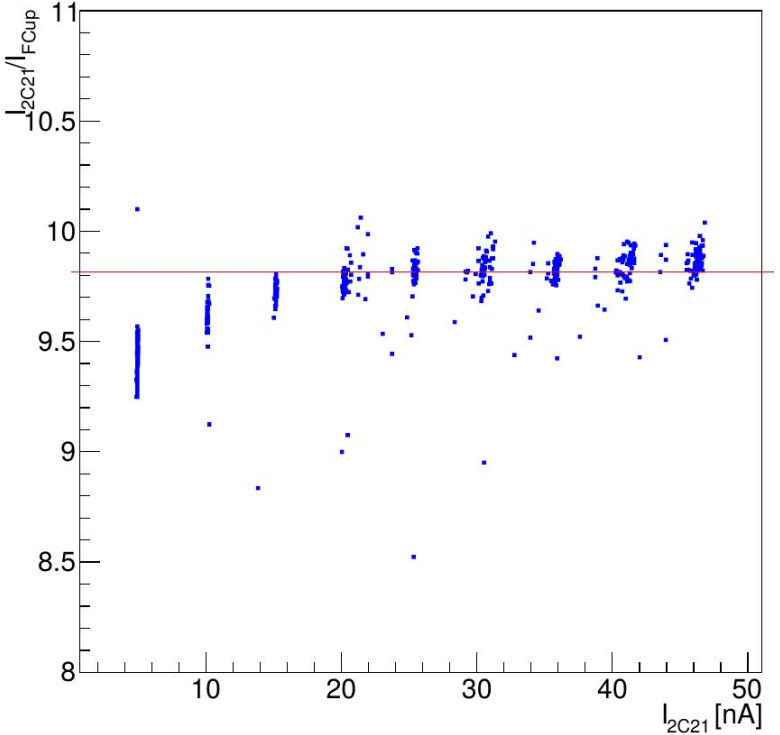
BPMs are not linear before 20 nA

Attenuation with Using 2C21 BPM

Attenuation



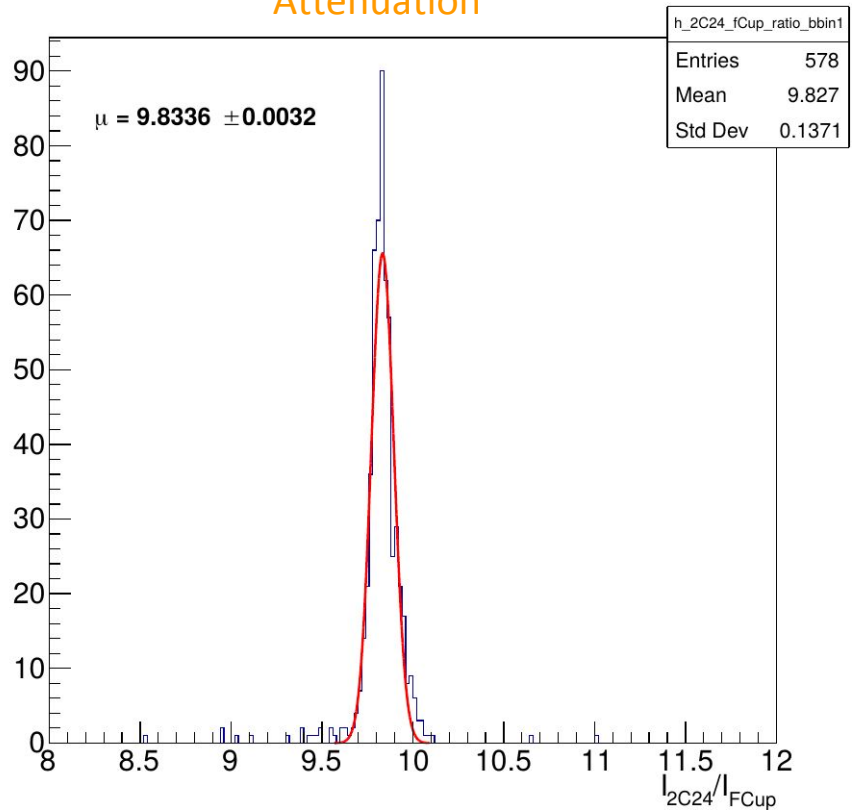
Attenuation vs Beam current



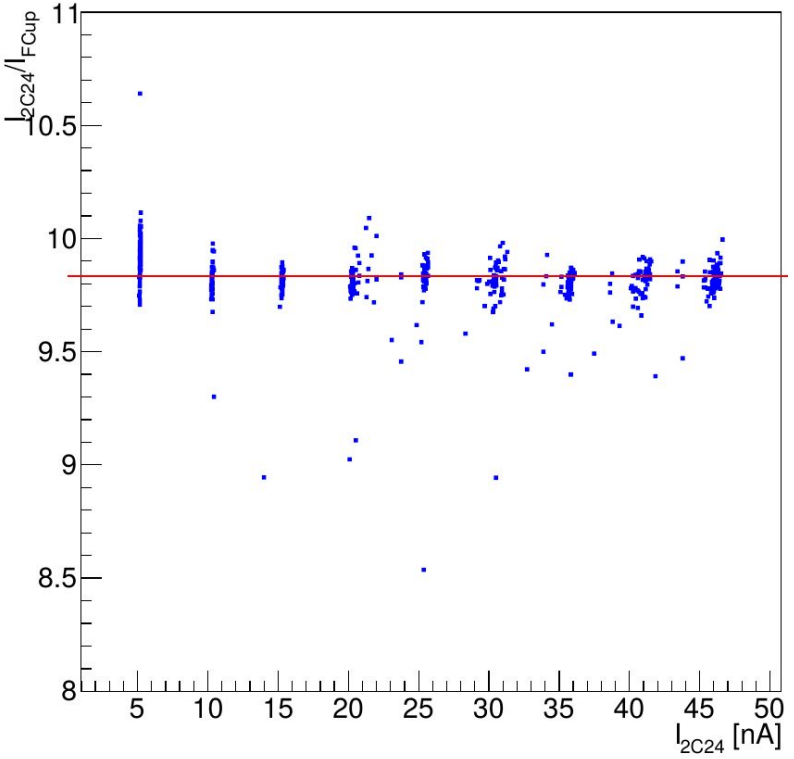
The beam attenuation measurement with 10.4 GeV beam: Empty target

Attenuation with Using 2C24 BPM

Attenuation



Attenuation vs Beam current



Attenuation with LD2 target: 9.6930
Attenuation with Empty target: 9.8336
The effect is only 1.45 %

The Beam Blocker attenuation is updated