

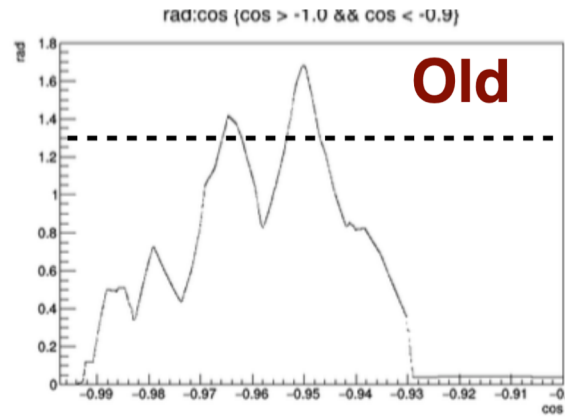
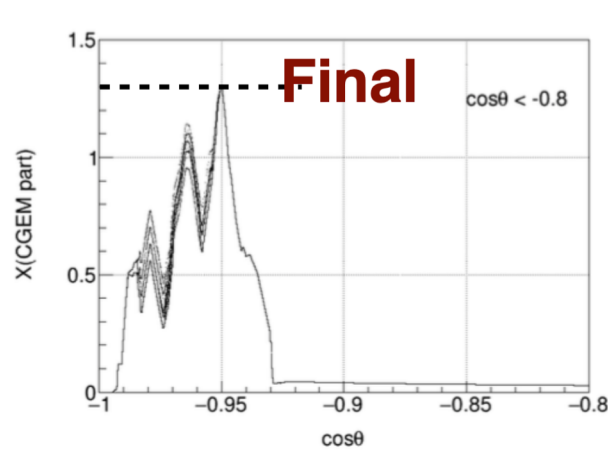
# Effect on EMC from CGEM material (after passive elements update)

Chunxiu Liu

2020-06-18

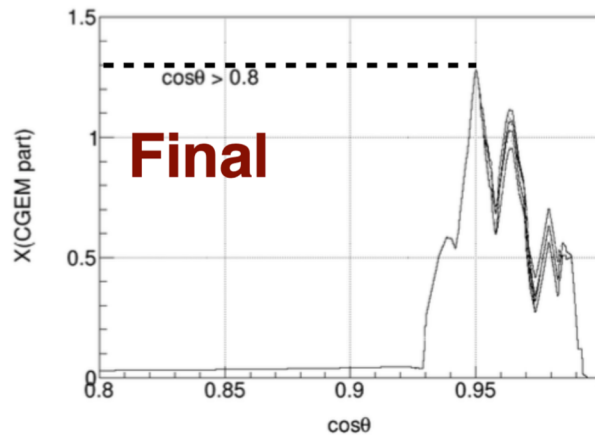
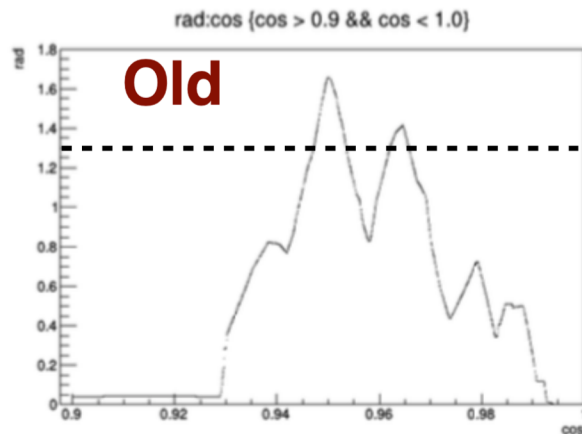
# Passive elements update

Endcap Region



Old in CgemBoss665e

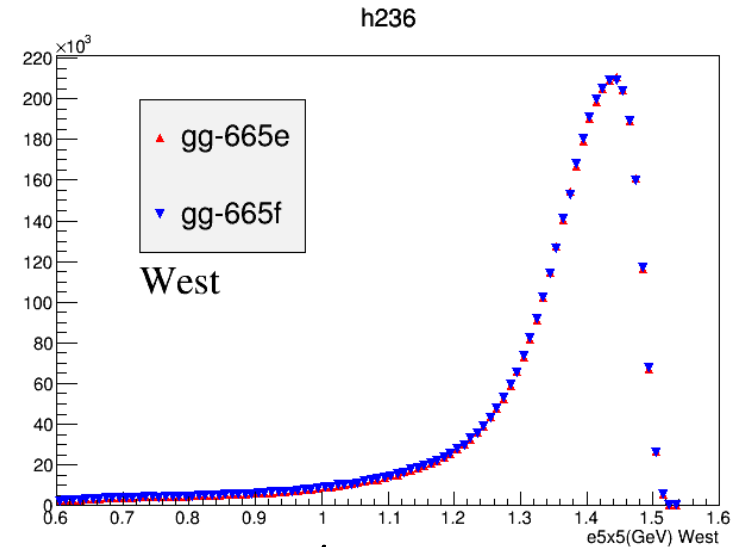
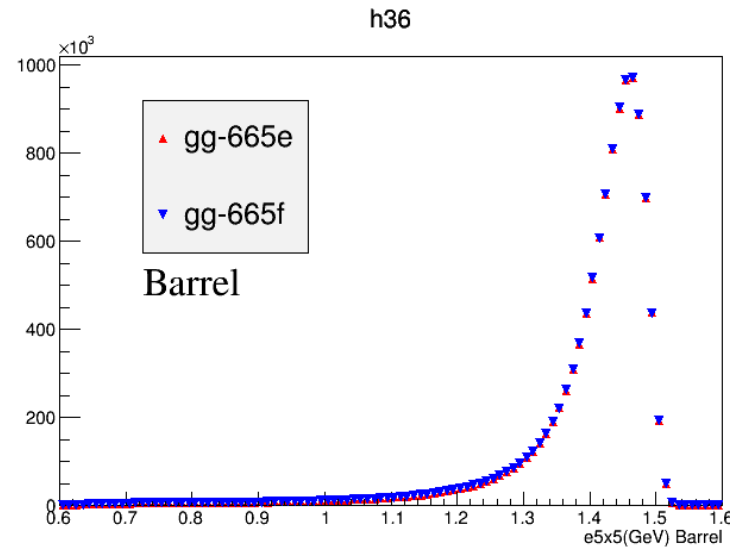
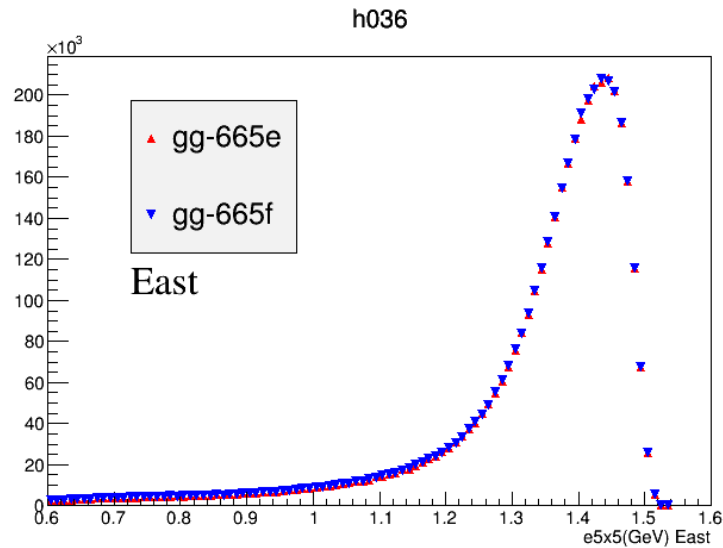
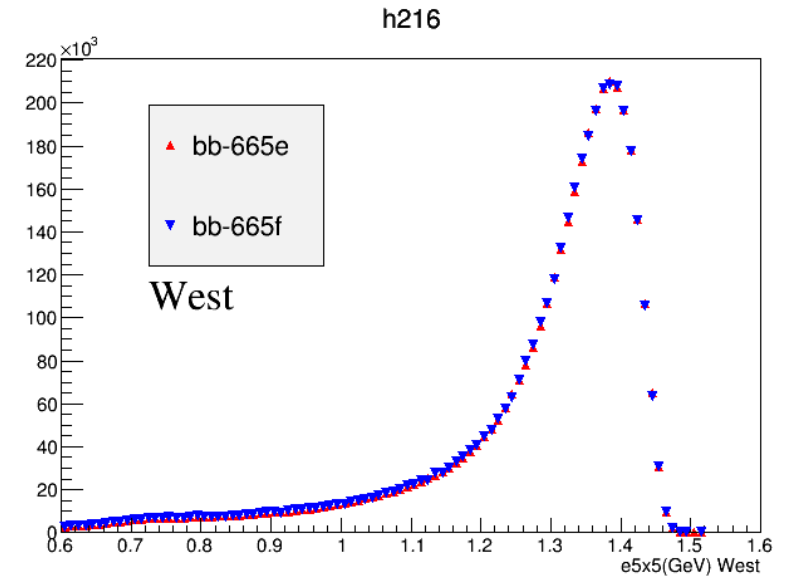
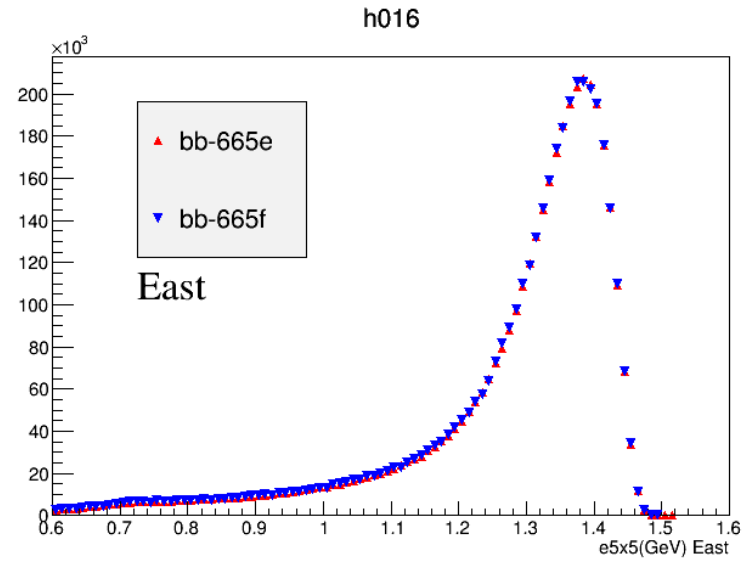
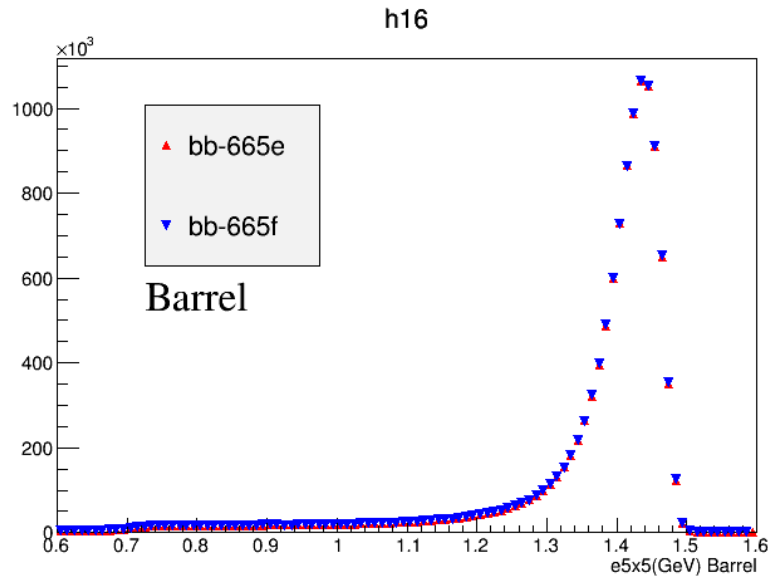
Endcap Region



Final in CgemBoss665f

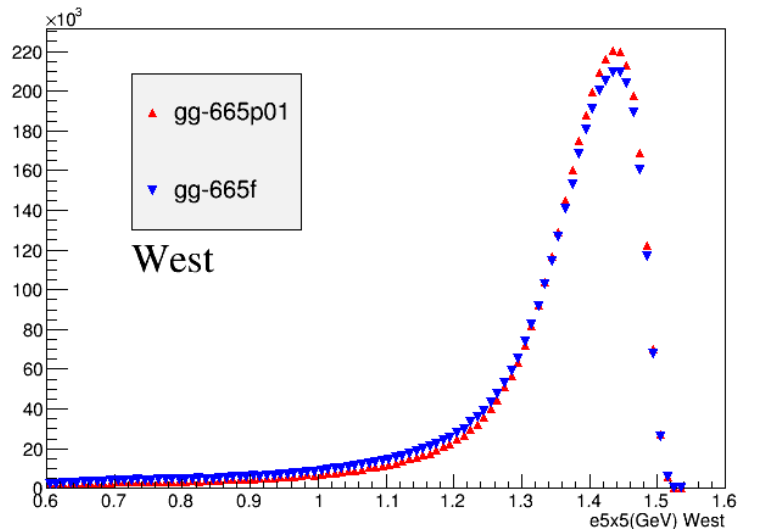
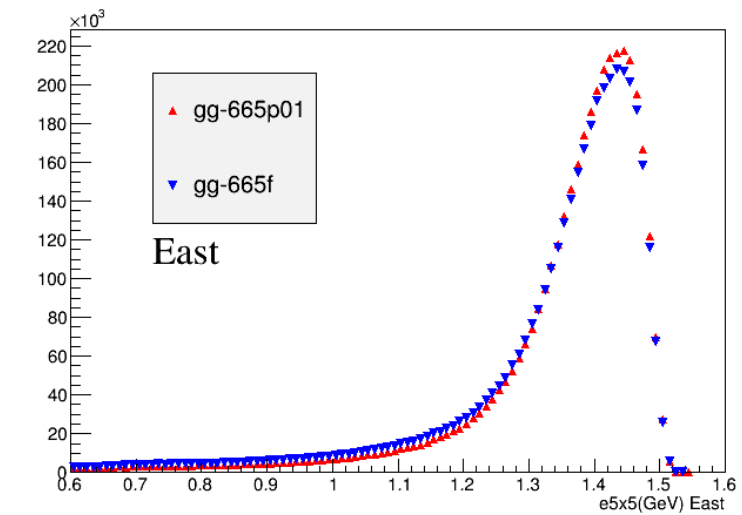
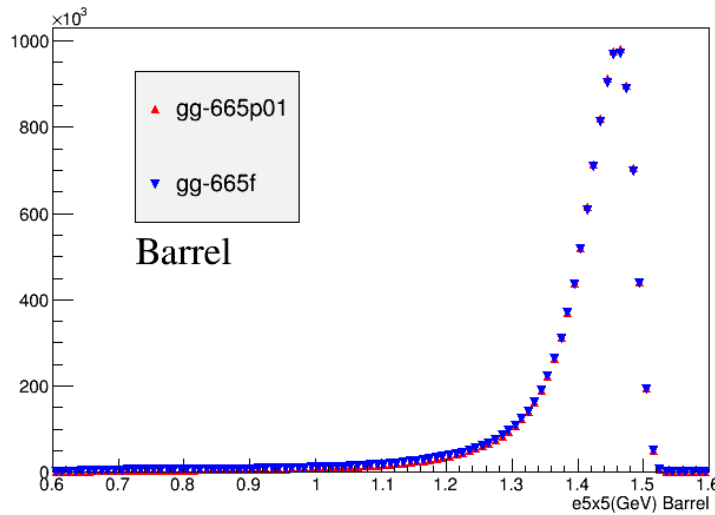
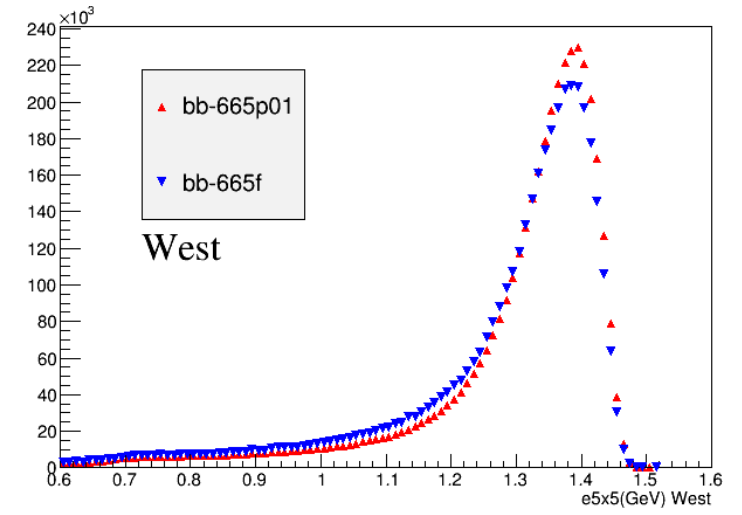
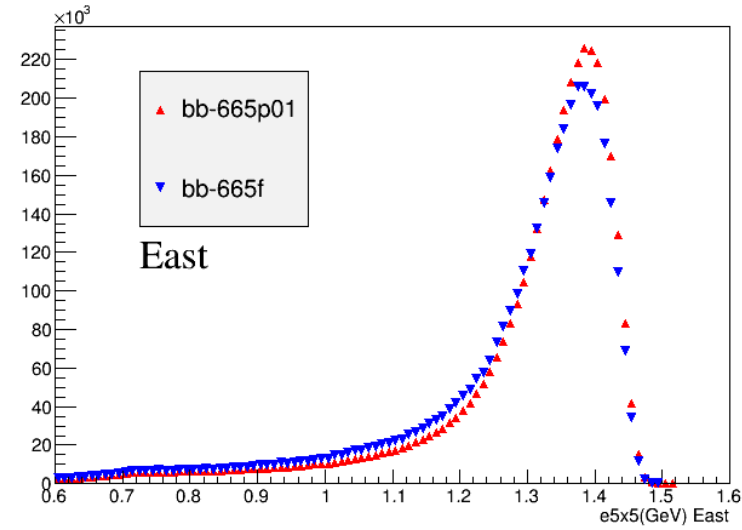
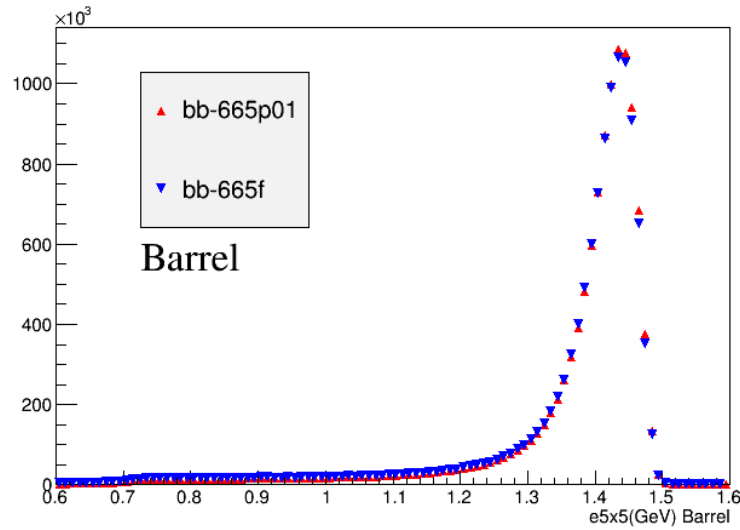
(From Isabella's talk in Feb 2020)

# Comparison of E(5\*5) with CGEMBOSS665e and CGEMBOSS665f



E5x5 energy distribution of Bhabha and digamma@J/ $\psi$

# Comparison of E(5\*5) with BOSS665p01 and CGEMBOSS665f



E5x5 energy distribution of Bhabha and digamma@J/ $\psi$

# E5x5 energy peak and resolution of Bhabha and digamma

	E5x5 Peak (Bhabha @J/ψ)			E5x5 Peak (digamma@J/ψ)		
(GeV)	Peak <sub>665p01</sub>	Peak <sub>665f</sub>	Peak <sub>665f</sub> - Peak <sub>665p01</sub>	Peak <sub>665p01</sub>	Peak <sub>665f</sub>	Peak <sub>665f</sub> - Peak <sub>665p01</sub>
Barrel	1.4417	1.4408	-0.9MeV	1.4616	1.4617	0.1MeV
East	1.3905	1.3861	-4.4MeV	1.4386	1.4388	0.2MeV
West	1.3906	1.3862	-4.4MeV	1.4390	1.4394	0.4MeV

	Resolution (Bhabha @J/ψ)			Resolution (digamma@J/ψ)		
(%)	σ <sub>665p01</sub>	σ <sub>665f</sub>	σ <sub>665f</sub> - σ <sub>665p01</sub>	σ <sub>665p01</sub>	σ <sub>665f</sub>	σ <sub>665f</sub> - σ <sub>665p01</sub>
Barrel	2.55	2.58	0.03	2.86	2.87	0.01
East	4.3	4.66	0.36(8.4%)	4.24	4.38	0.14(3.3%)
West	4.24	4.58	0.34(8%)	4.18	4.32	0.14(3.3%)

Almost the same as before