

Figure 1: Distributions of mass soft drop at β =0, signal=ww, in 5,10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.

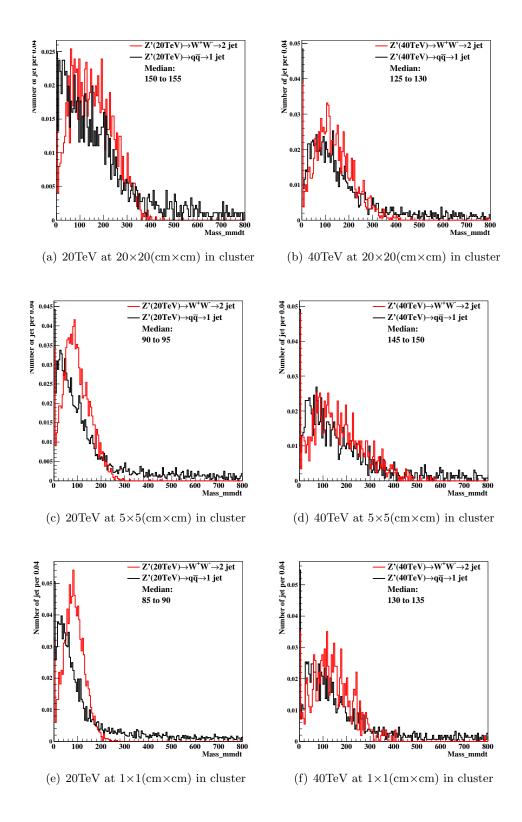


Figure 2: Distributions of mass soft drop at β =0, signal=ww, in 20,40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here. 2

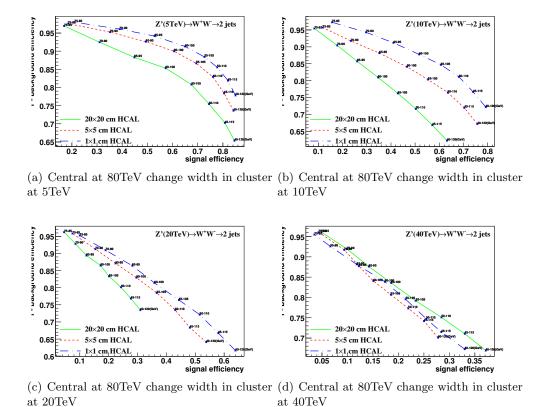


Figure 3: study of "fix central and change width" in mass soft drop at β =0, signal=ww, in 5, 10, 20, 40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.

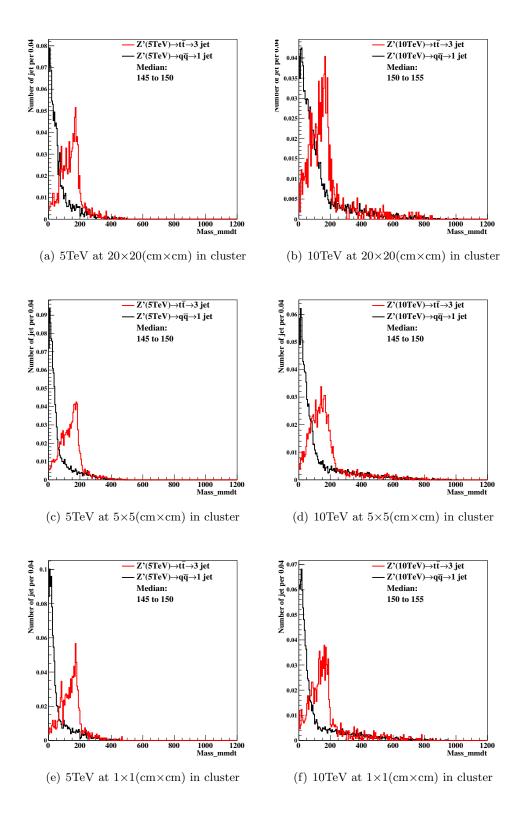


Figure 4: Distributions of mass soft drop at β =0, signal=tt, in 5,10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.

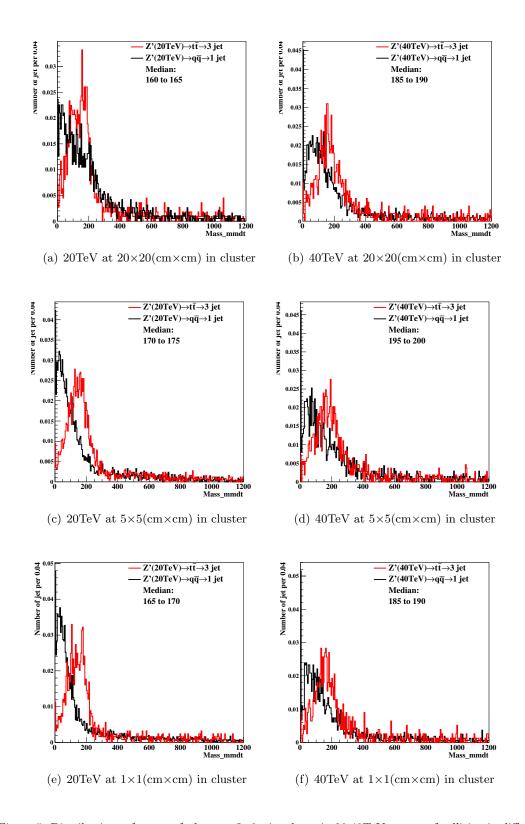


Figure 5: Distributions of mass soft drop at β =0, signal=tt, in 20,40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here. 5

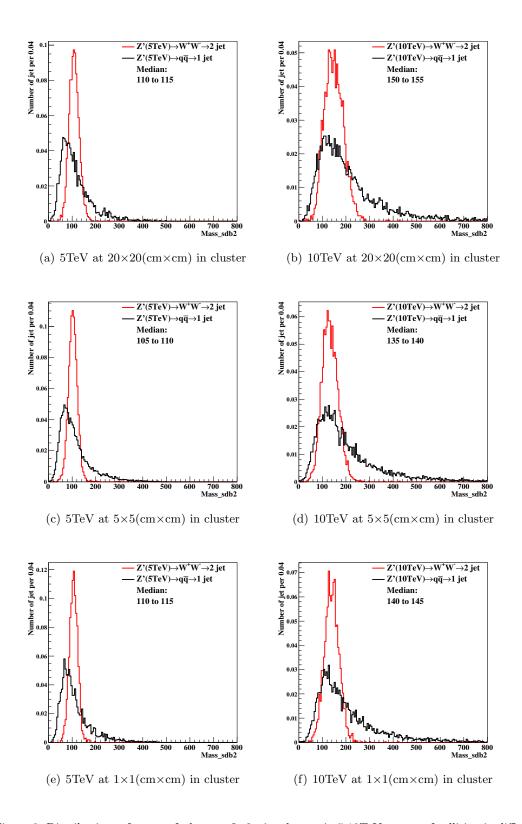


Figure 6: Distributions of mass soft drop at β =2, signal=ww, in 5,10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.

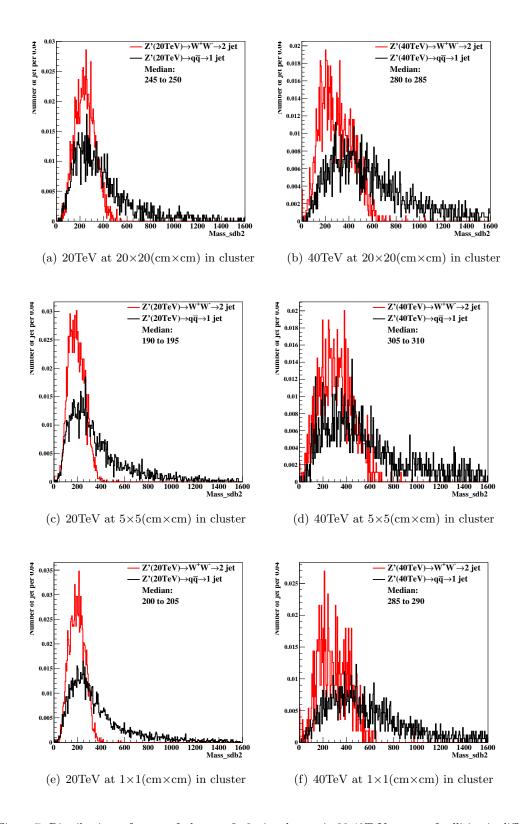


Figure 7: Distributions of mass soft drop at β =2, signal=ww, in 20,40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here. 7

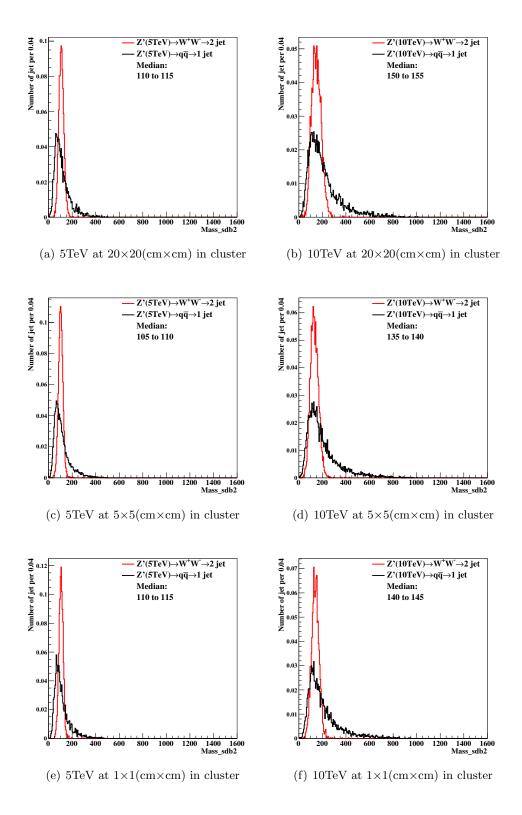
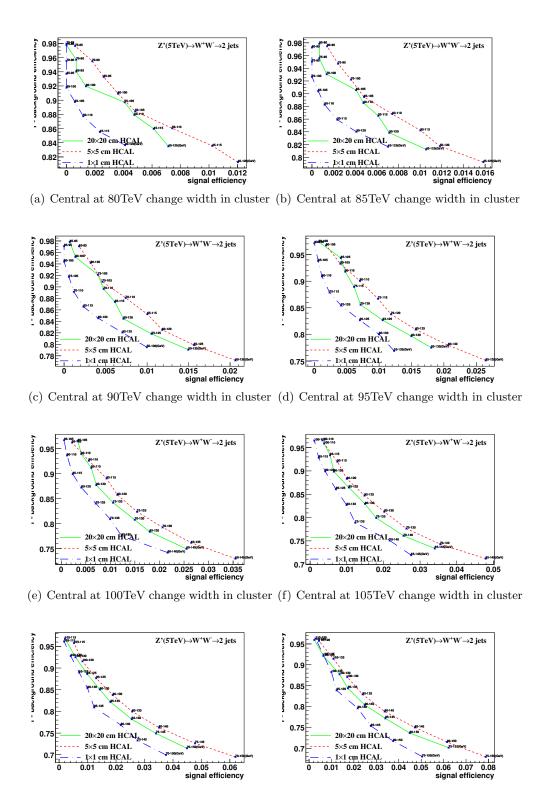
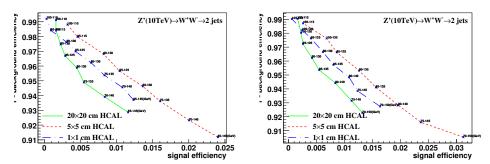


Figure 8: Distributions of mass soft drop at β =2, signal=ww, in 5,10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.

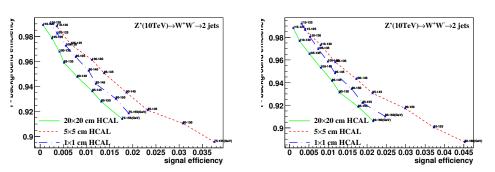


(g) Central at 110TeV change width in cluster (h) Central at 115TeV change width in cluster

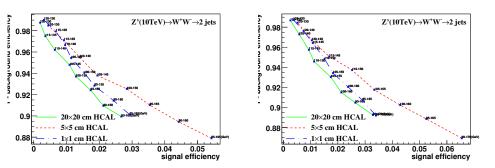
Figure 9: study of "fix central and change width" in mass soft drop at β =2, signal=ww, in 5TeV energy of collision in different detector sizes. Cell Size ing20×20, 5×5, and 1×1(cm×cm) are shown in each picture.



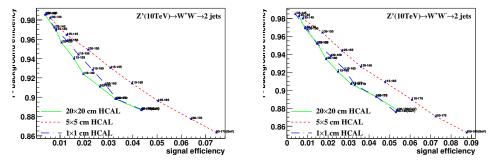
(a) Central at 105TeV change width in clus- (b) Central at 110TeV change width in cluster ter



(c) Central at 115 TeV change width in cluster (d) Central at 120 TeV change width in cluster



(e) Central at 125TeV change width in cluster (f) Central at 130TeV change width in cluster



(g) Central at 135TeV change width in cluster (h) Central at 140TeV change width in cluster

Figure 10: study of "fix central and change width" in mass soft drop at β =2, signal=ww, in 10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.

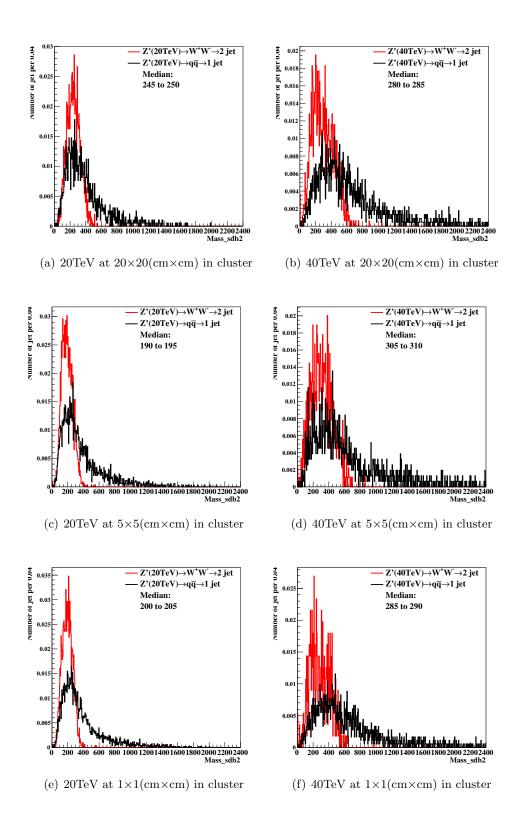
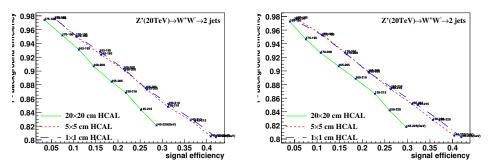
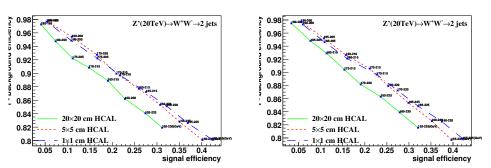


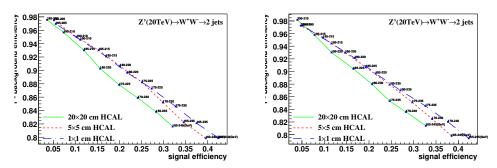
Figure 11: Distributions of mass soft drop at β =2, signal=ww, in 20,40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.



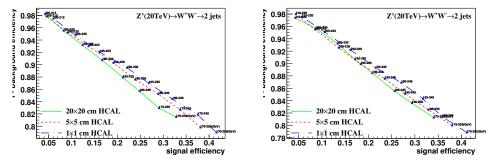
(a) Central at 180 TeV change width in cluster (b) Central at 185 TeV change width in cluster ter



(c) Central at 190TeV change width in cluster (d) Central at 195TeV change width in cluster

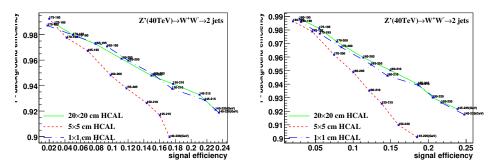


(e) Central at 200TeV change width in cluster (f) Central at 205TeV change width in cluster

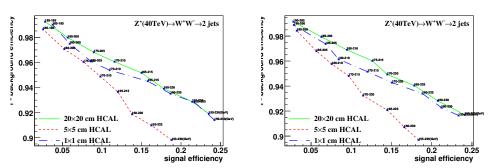


(g) Central at 210TeV change width in cluster (h) Central at 215TeV change width in cluster

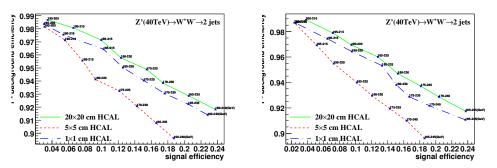
Figure 12: study of "fix central and change width" in mass soft drop at β =2, signal=ww, in 20TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.



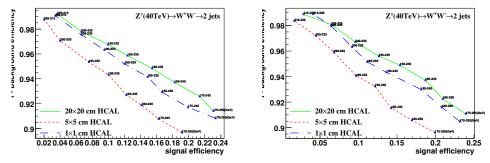
(a) Central at 180 TeV change width in cluster (b) Central at 185 TeV change width in cluster ter



(c) Central at 190TeV change width in cluster (d) Central at 195TeV change width in cluster



(e) Central at 200TeV change width in cluster (f) Central at 205TeV change width in cluster



(g) Central at 210TeV change width in cluster (h) Central at 215TeV change width in cluster

Figure 13: study of "fix central and change width" in mass soft drop at β =2, signal=ww, in 40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.

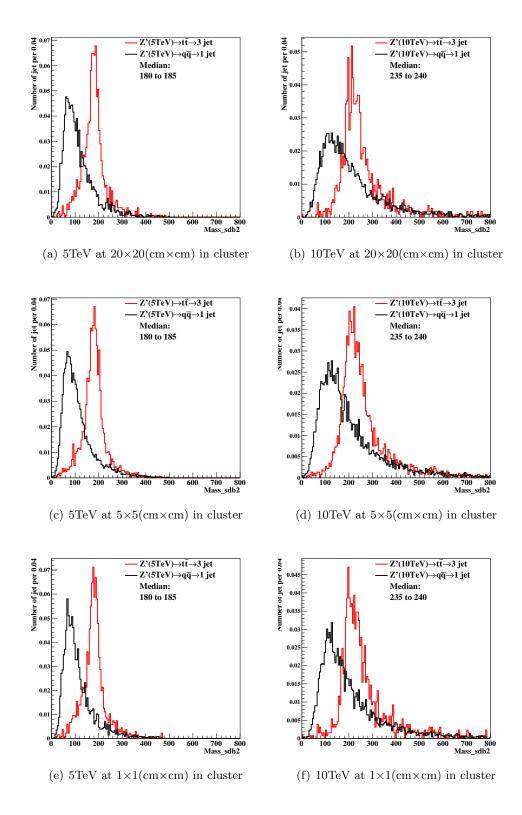


Figure 14: Distributions of mass soft drop at β =2, signal=tt, in 5,10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.

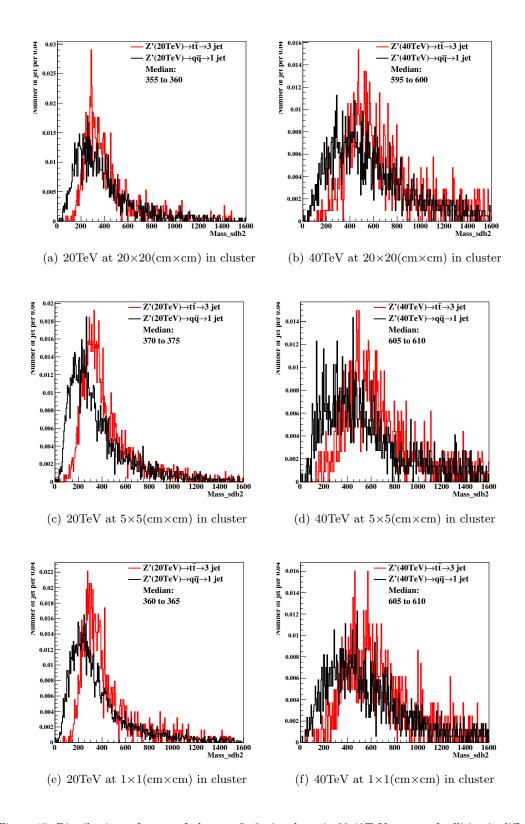


Figure 15: Distributions of mass soft drop at β =2, signal=tt, in 20,40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.

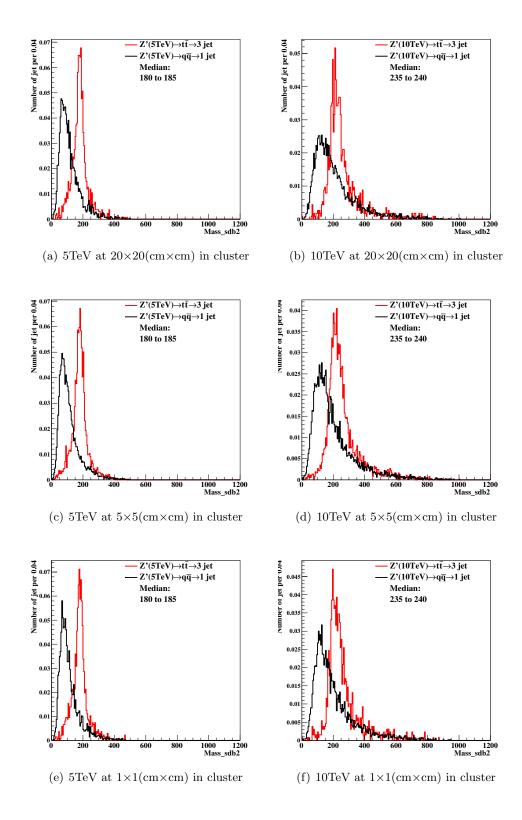
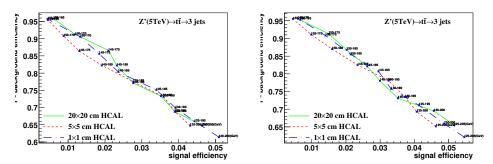
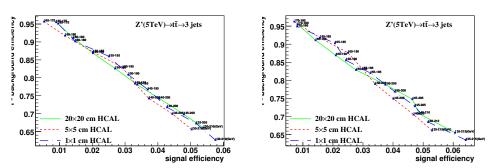


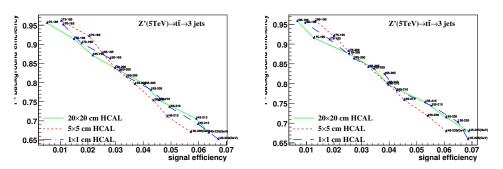
Figure 16: Distributions of mass soft drop at β =2, signal=tt, in 5,10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.



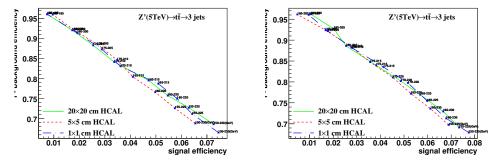
(a) Central at 160TeV change width in clus- (b) Central at 165TeV change width in cluster ter



(c) Central at 170TeV change width in cluster (d) Central at 175TeV change width in cluster

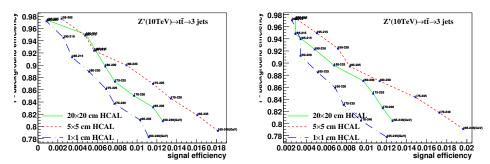


(e) Central at 180TeV change width in cluster (f) Central at 185TeV change width in cluster

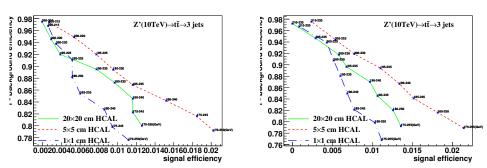


(g) Central at 190TeV change width in cluster (h) Central at 195TeV change width in cluster

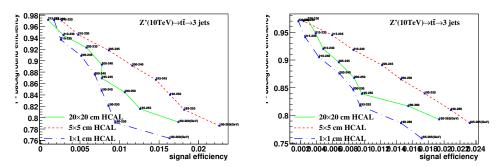
Figure 17: study of "fix central and change width" in mass soft drop at β =2, signal=tt, in 5TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.



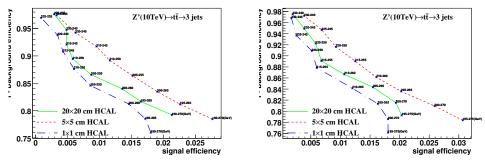
(a) Central at 200 TeV change width in cluster (b) Central at 205 TeV change width in cluster ter



(c) Central at 210TeV change width in cluster (d) Central at 215TeV change width in cluster



(e) Central at 220TeV change width in cluster (f) Central at 225TeV change width in cluster



(g) Central at 230TeV change width in cluster (h) Central at 235TeV change width in cluster

Figure 18: study of "fix central and change widths" in mass soft drop at β =2, signal=tt, in 10TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.

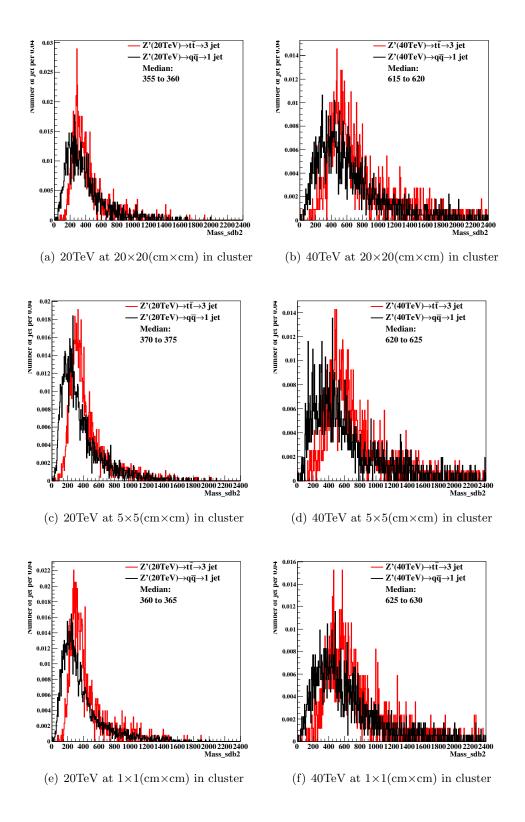
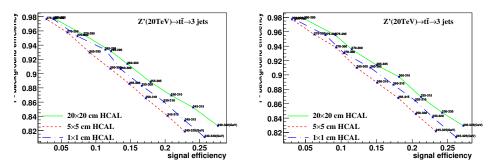
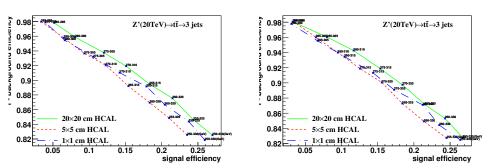


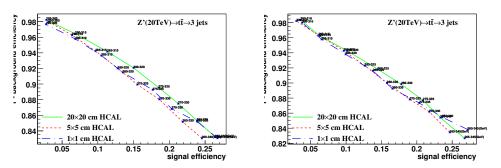
Figure 19: Distributions of mass soft drop at β =2, signal=tt, in 20,40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown here.



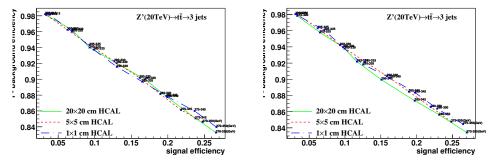
(a) Central at 280 TeV change width in cluster ter



(c) Central at 290TeV change width in cluster (d) Central at 295TeV change width in cluster

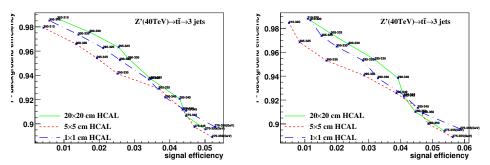


(e) Central at 300TeV change width in cluster (f) Central at 305TeV change width in cluster

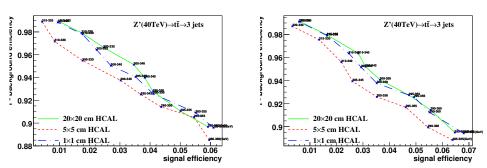


(g) Central at 310TeV change width in cluster (h) Central at 315TeV change width in cluster

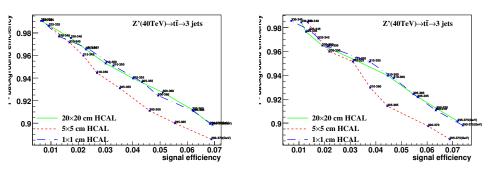
Figure 20: study of "fix central and change width" in mass soft drop at β =2, signal=tt, in 20TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.



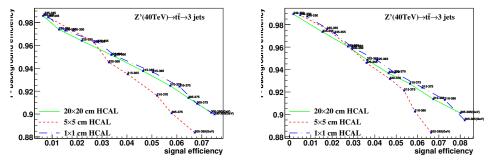
(a) Central at 310 TeV change width in cluster (b) Central at 315 TeV change width in cluster ter



(c) Central at 320TeV change width in cluster (d) Central at 325TeV change width in cluster



(e) Central at 330TeV change width in cluster (f) Central at 335TeV change width in cluster



(g) Central at 340TeV change width in cluster (h) Central at 345TeV change width in cluster

Figure 21: study of "fix central and change width" in mass soft drop at β =2, signal=tt, in 40TeV energy of collision in different detector sizes. Cell Size in 20×20, 5×5, and 1×1(cm×cm) are shown in each picture.