

FIG. 1: PDF dependence for  $\sigma$  (nb/GeV<sup>-2</sup>),  $\sqrt{s} = 7$  TeV (blue : pure LL, green : LL vertices with collinear improved NLL Green's function, brown : pure NLL, red : full NLL vertices with the collinear improved NLL Green's function.)



FIG. 2: PDF dependance for  $\langle \cos \varphi \rangle, \sqrt{s} = 7 \, {\rm TeV}$ 



FIG. 3: Variation of  $\sigma$  (nb/GeV^{-2}) with  ${\bf k}_{J,2},\,\sqrt{s}=7\,{\rm TeV}$ 



FIG. 4: Variation of  $\langle \cos \varphi \rangle$  with  $\mathbf{k}_{J,2}, \sqrt{s} = 7 \text{ TeV}$ 



FIG. 5: Variation of  $\sigma$  (nb/GeV<sup>-2</sup>) with  $\mathbf{k}_{J,2}$ ,  $\sqrt{s} = 14$  TeV



FIG. 6: Variation of  $\langle \cos \varphi \rangle$  with  $\mathbf{k}_{J,2}$ ,  $\sqrt{s} = 14 \text{ TeV}$