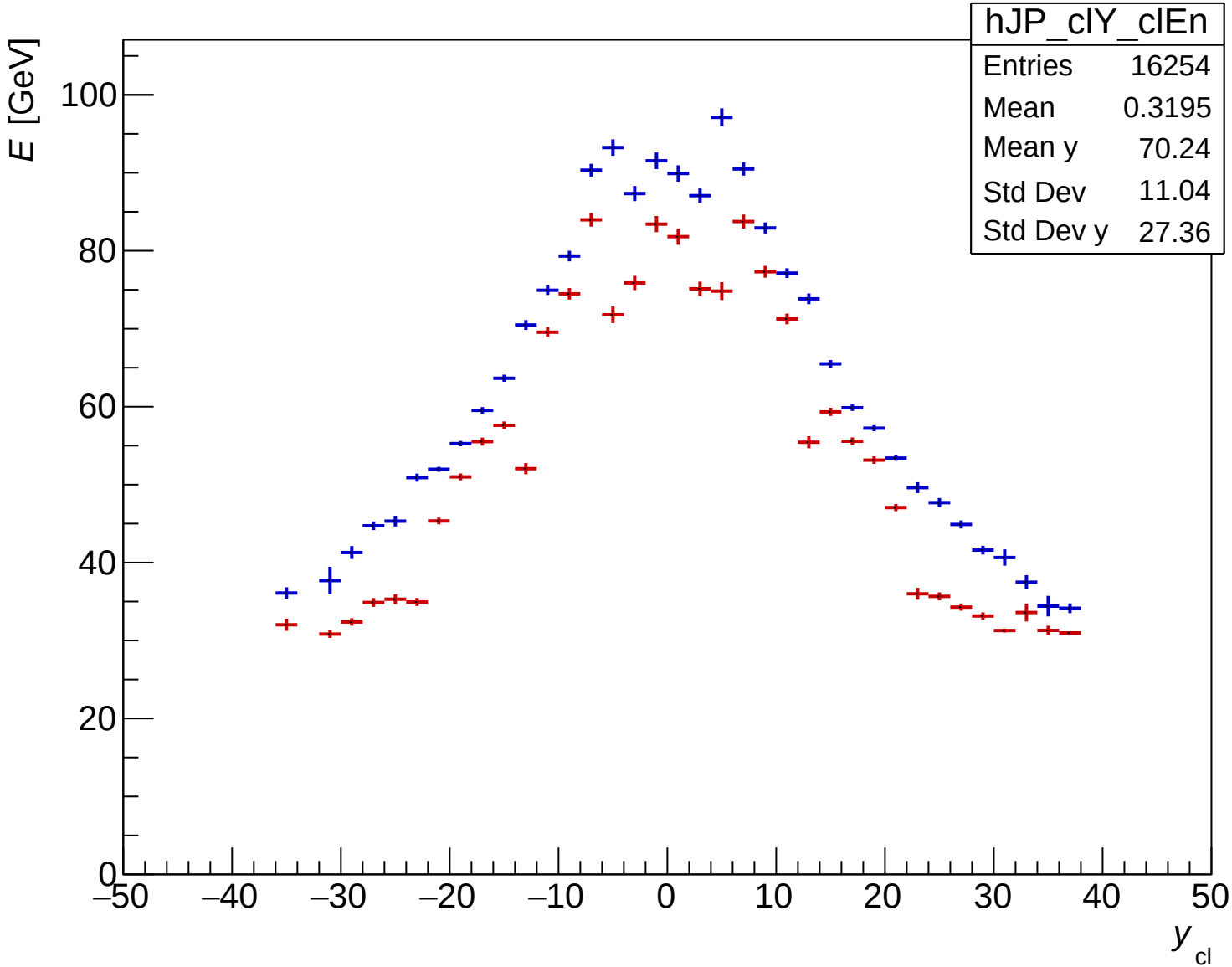Y-profile of energy distributions: matched MC tracks (blue) vs clusters (red)