Zhuang-dan Daniel Guan* (zguan@math.ucr. edu), Dept. of Math, UCR, Riverside, CA 92521. Some Remarks on Simply Connected Calabi Yau Threefolds.
Using the Hilbert schemes of the hyperelliptic surfaces we obtain simply connected Calabi Yau threefolds with height $\mathrm{h}=\mathrm{h} 11+\mathrm{h} 12=12$ and 14. Recently, more and more compact simply connected projective Calabi Yau threefolds have been found. But the region of possible Hodge plots is seemly unchanged over the years. Let $\mathrm{k}=\mathrm{h} 11-\mathrm{h} 12$ be the algebraic generation, then the region is been bounded by $|k|=480, \mathrm{~h}=502, h=|k|$ and $(h-246)^{2}-(|k|-240)^{2}=4 \times 1986$. (Received September 07, 2009)

