

FIGURE 13. Buoyancy profiles for two equal plumes showing their Gaussian profiles prior to merging, and the gradual coalescence. The profiles were measured using the dye attenuation technique.

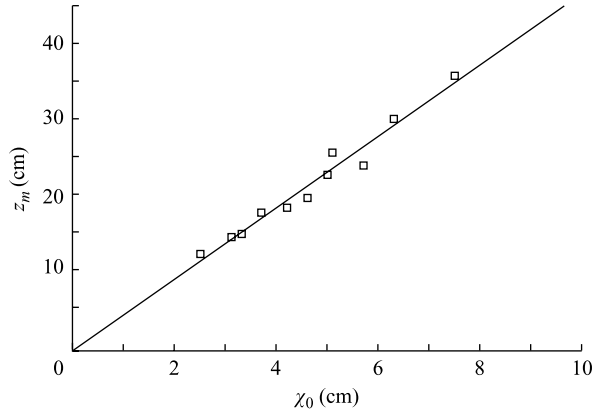


FIGURE 14. Plume merging height for equal plumes plotted against initial separation.

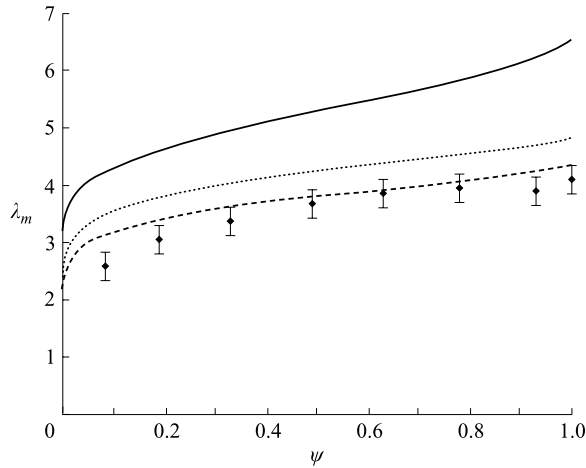


FIGURE 15. Plume merging height plotted as a function of the buoyancy flux ratio. The lines plotted are the theoretical predictions for $\lambda_{ub}(\alpha=0.09)$, $\lambda_m(\alpha=0.09)$ and $\lambda_m(\alpha=0.1)$ (top to bottom).