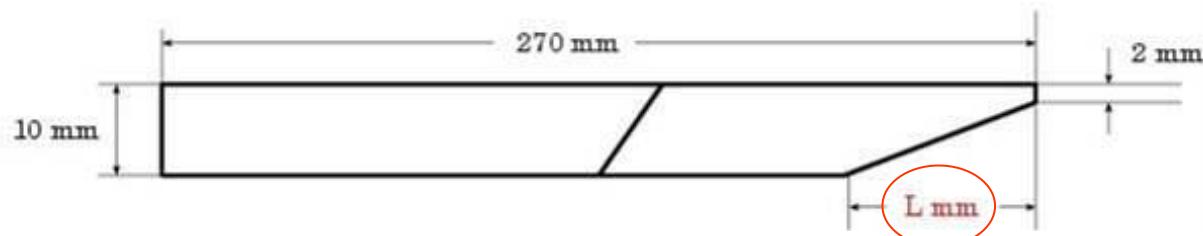
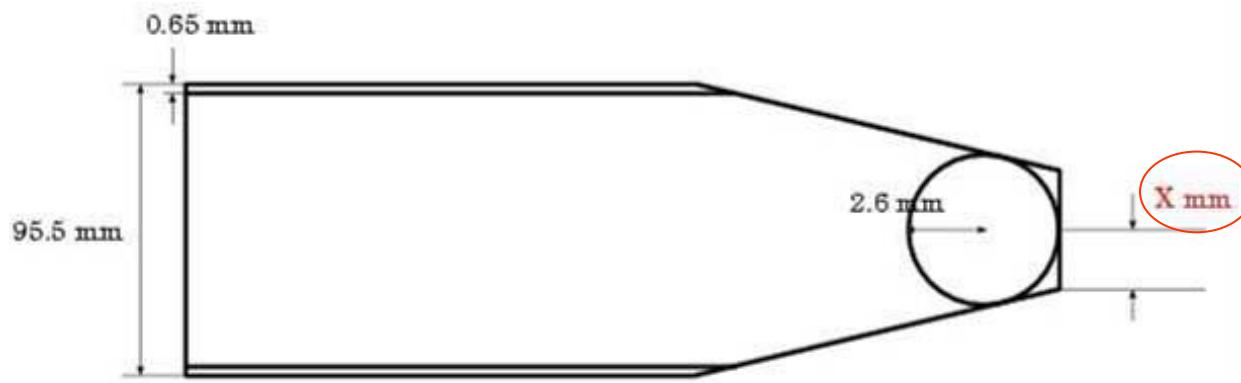


TOF simulation 改訂版

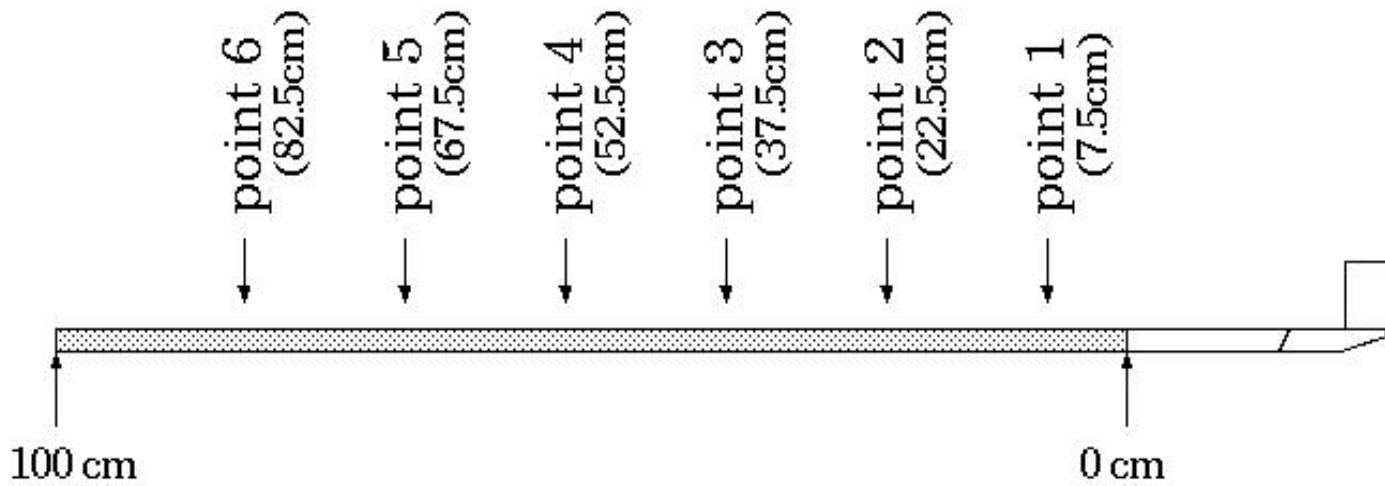
May 09, 2003

Definition of variables



Points of incident particles

10000 events for each points.



Definition of marks

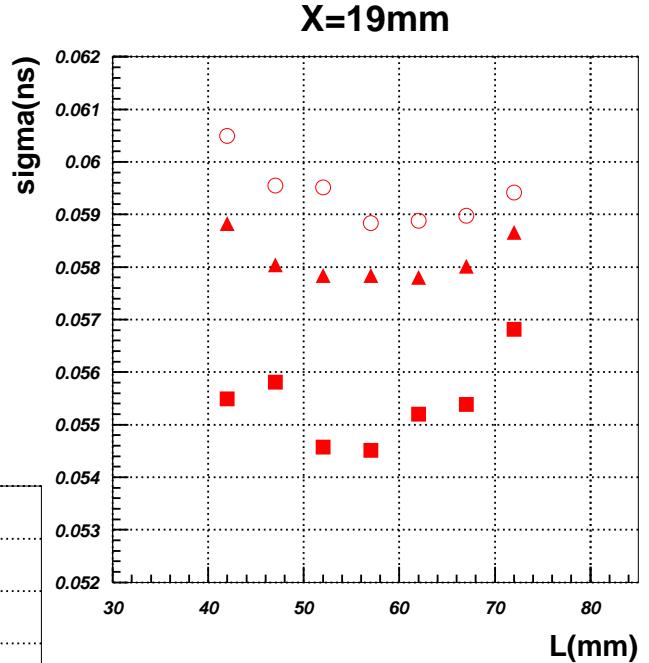
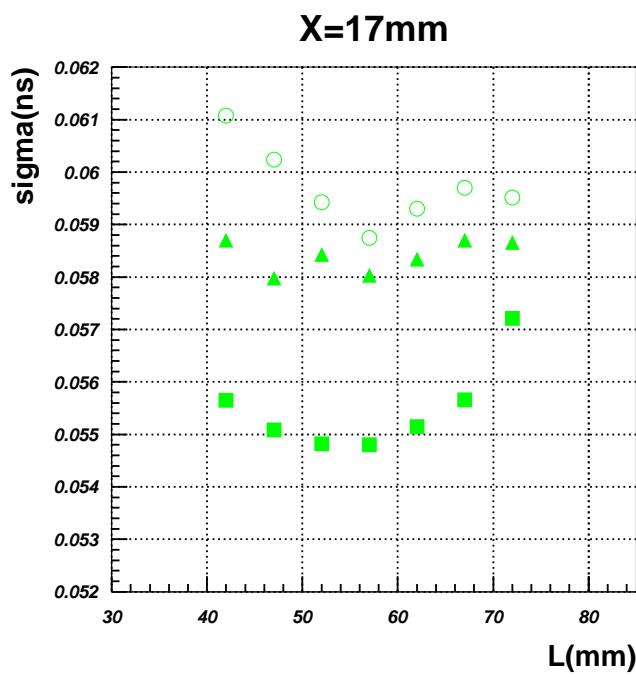
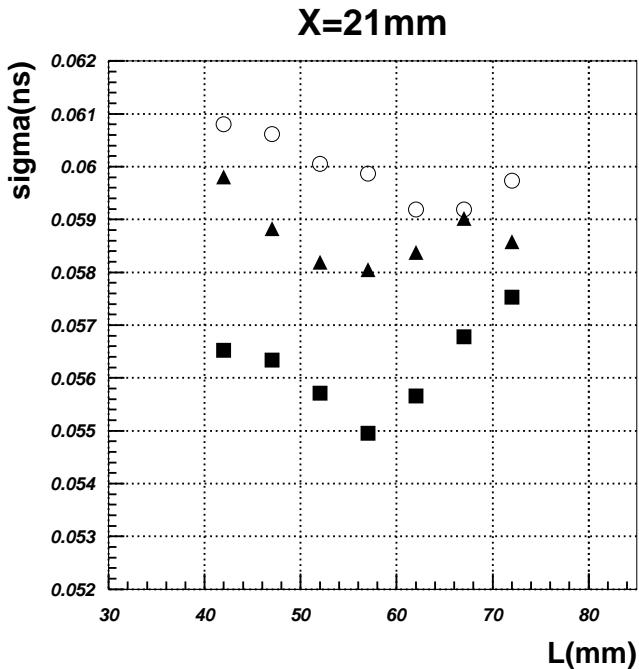
$$\sigma_{tof}^2 = \frac{1}{\frac{1}{\sigma_{pmt1}^2} + \frac{1}{\sigma_{pmt2}^2}}$$

■ sigma_tof (sigma_pmt1=point1, sigma_pmt2=point6)

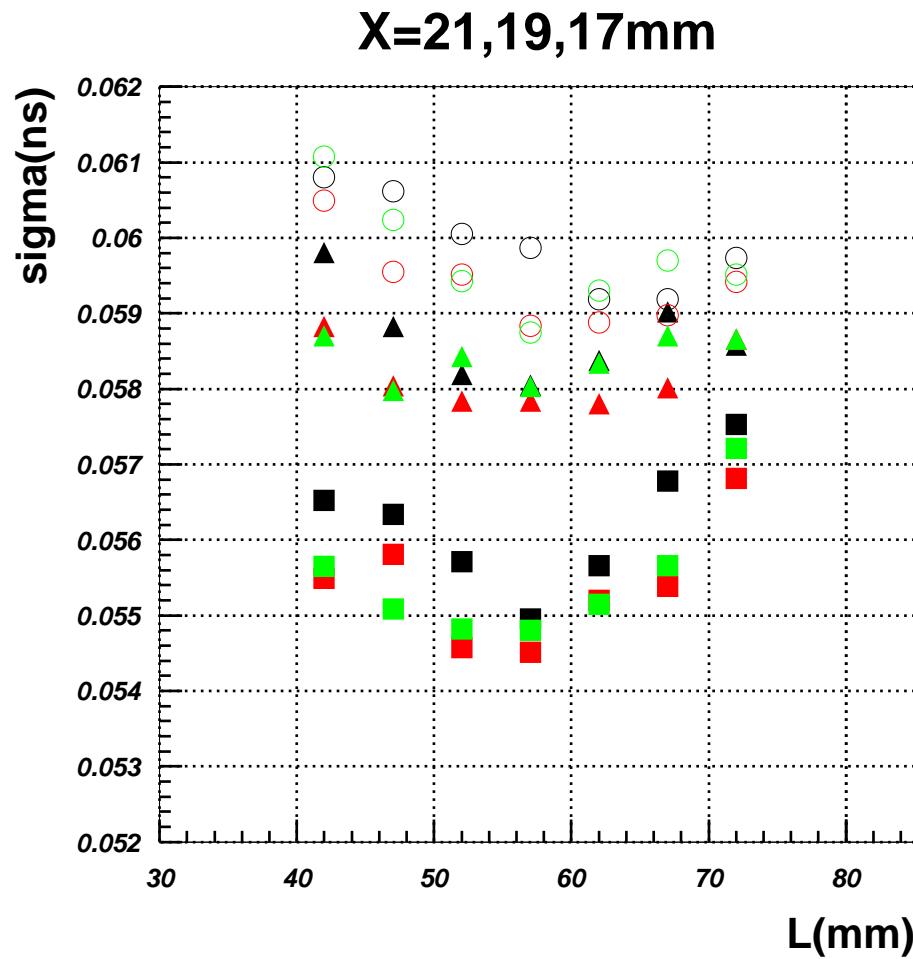
△ sigma_tof (sigma_pmt1=point2, sigma_pmt2=point5)

○ sigma_tof (sigma_pmt1=point3, sigma_pmt2=point4)

Results

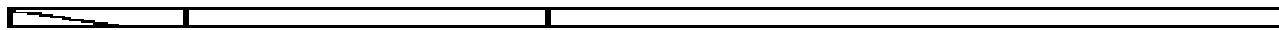


Result

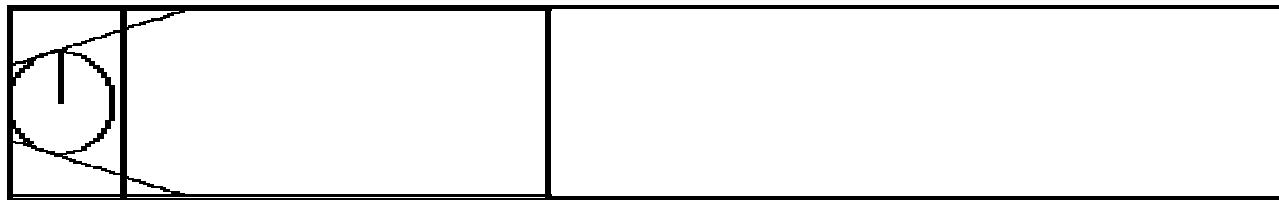


Conclusion

- $L=57\text{mm}$
- $X=17\text{mm}$ or 19mm



$X=19\text{mm}$



$X=17\text{mm}$

