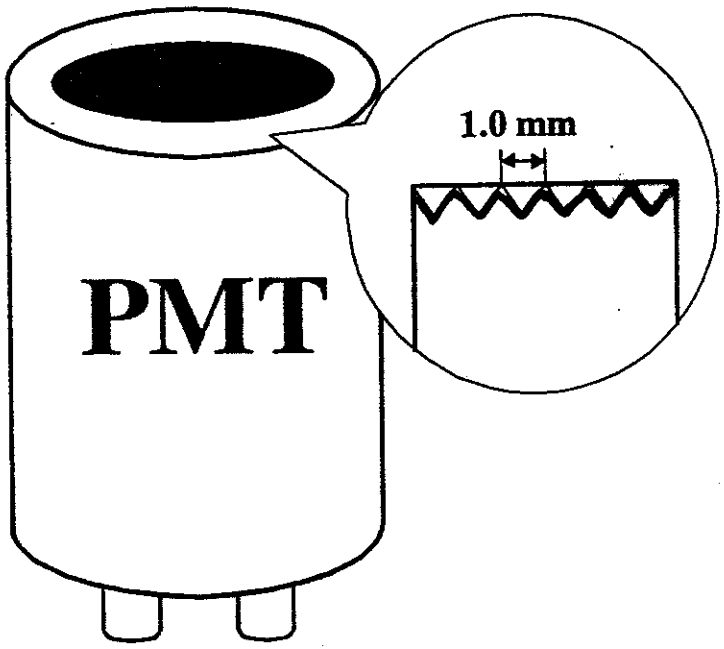
High QE PMT

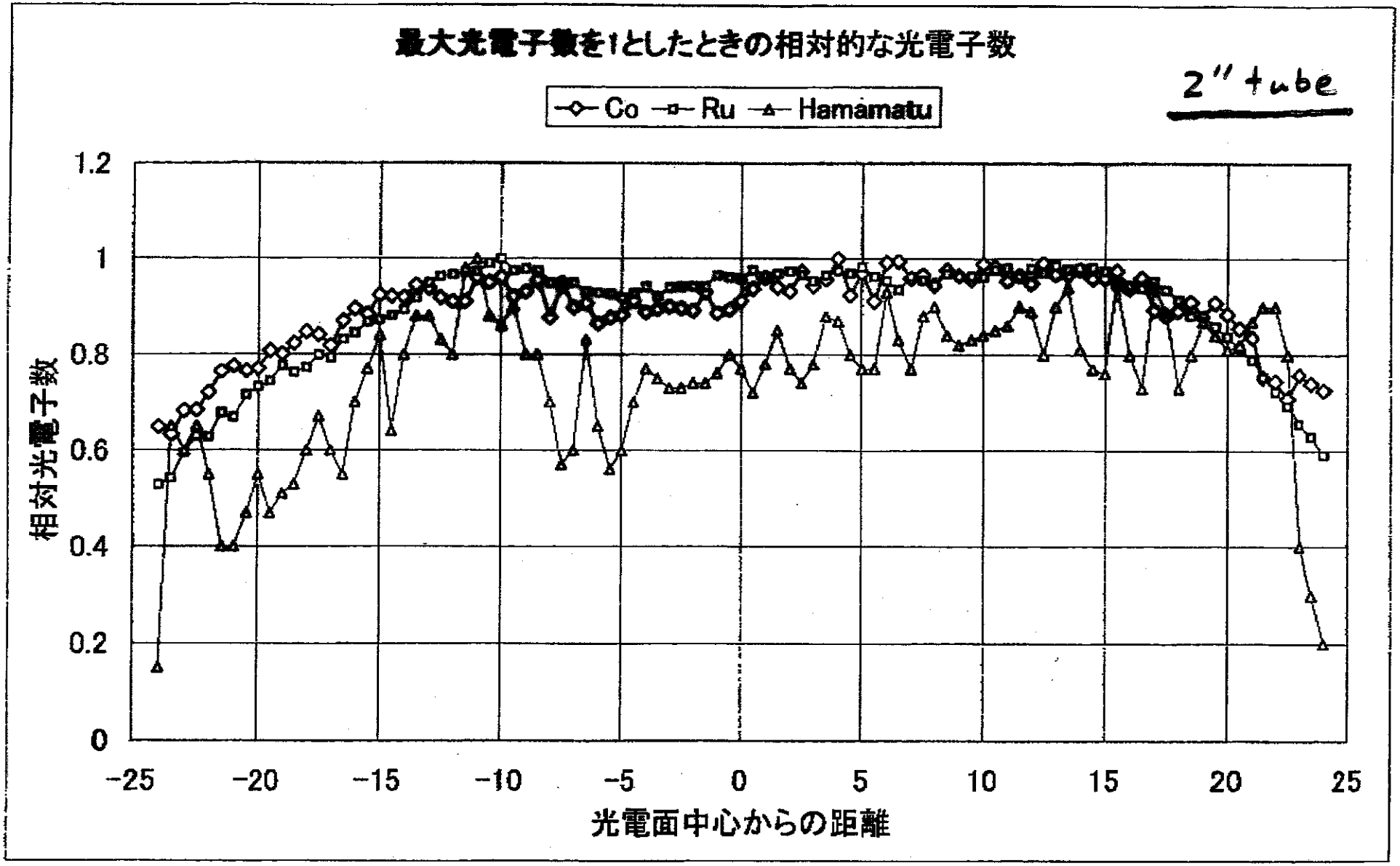
T. Inagaki

R5800 MOD



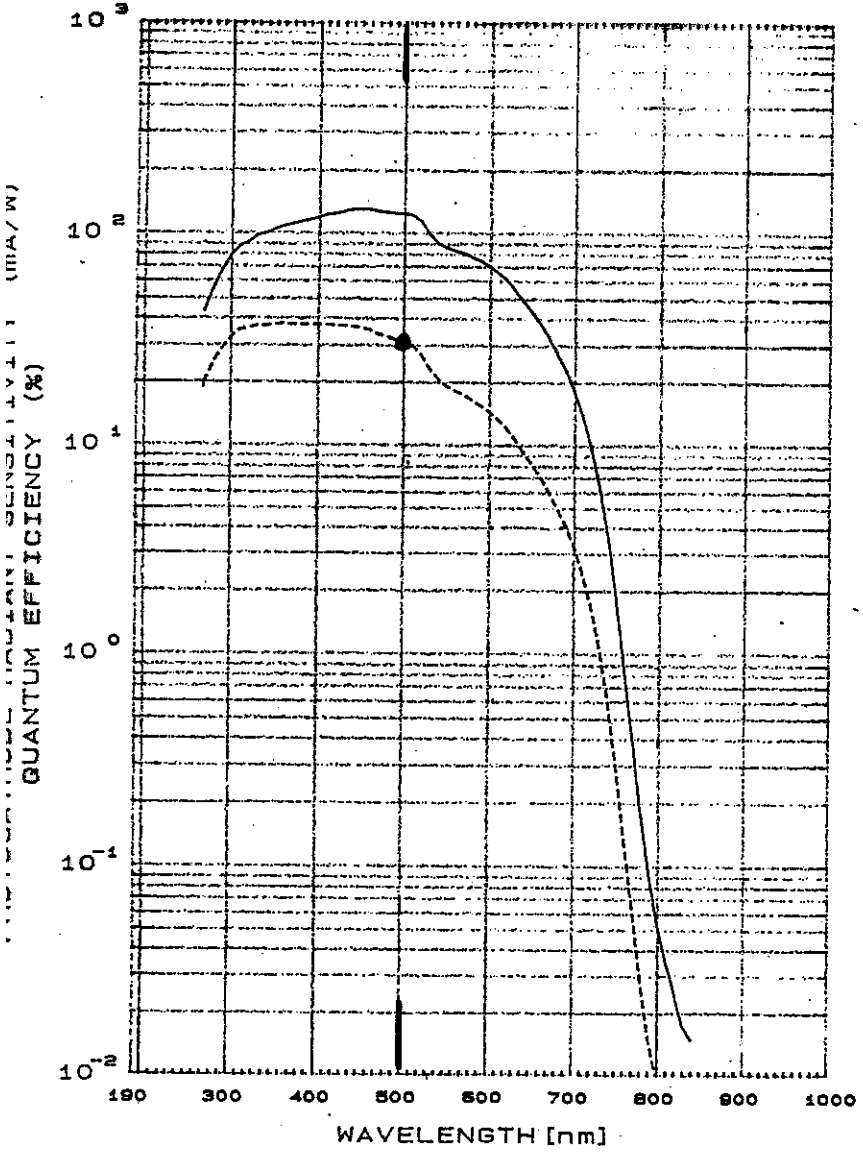
Photomuliplier tube

Tube type	獲得平均光電子数の相対比 relative number of p.e	Quantum efficiency (incidentphoton500nm) (相対比)
R5800(CA0201)	1	18%(1)
R5800MOD(XX0288)	1.39	24%(1.33)
R5800MOD(XX0295)	1.49	30%(1.6)


最大光電子数を1としたときの相対的な光電子数
2" tube
Co
Ru
Hamamatu
相対光電子数
1.2
1
0.8
0.6
0.4
0.2
0
-25
-20
-15
-10
-5
0
5
10
15
20
25
光電面中心からの距離

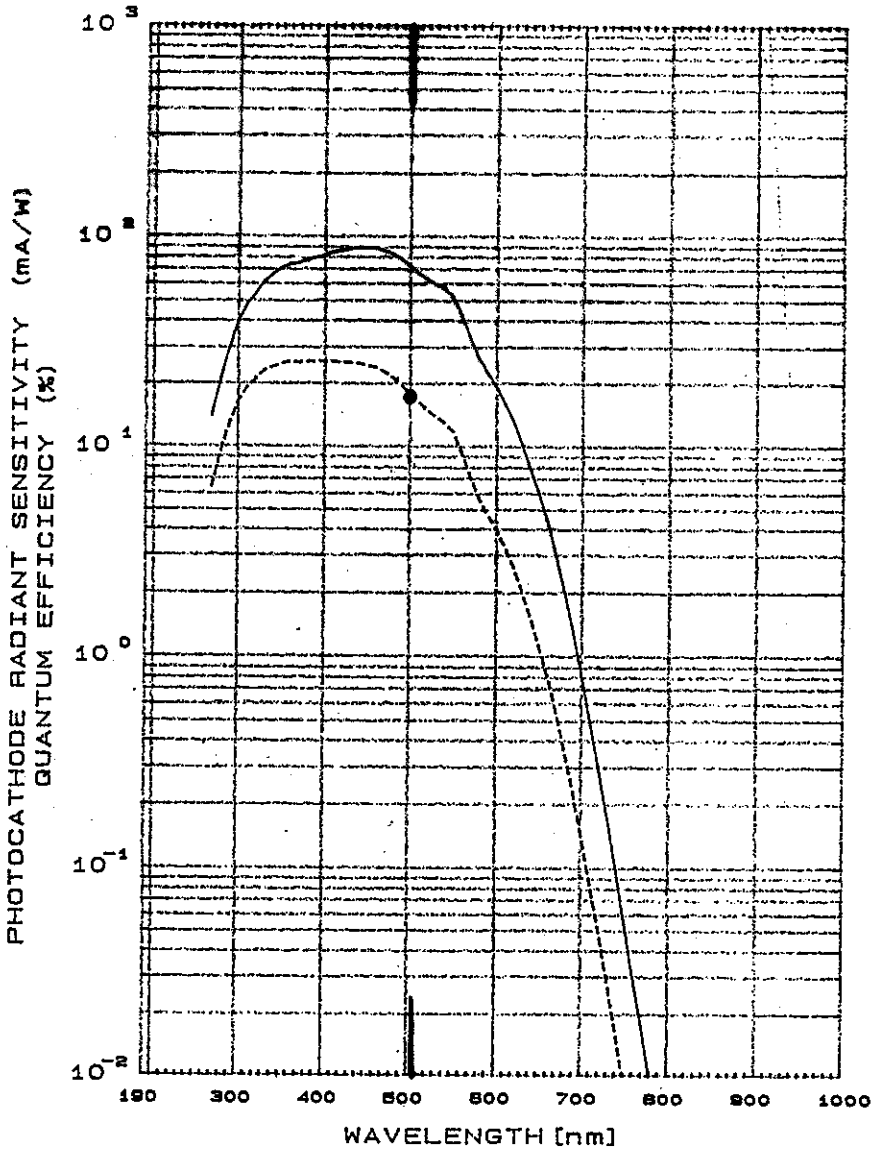
SPECTRAL RESPONSE CHARACTERISTICS

TUBE TYPE : R5800MOD TESTED BY : Y.HOTTA
SERIAL NO : XX0295 NOTE : SK: 318 IKS: 18.4
DATE : 98/08/19



SPECTRAL RESPONSE CHARACTERISTICS

TUBE TYPE : R5800 TESTED BY : Y.HOTTA
SERIAL NO : CA0001 NOTE : SK: 117 IKS: 10.9
DATE : 98/08/19



HAMAMATSU

Summary

- Test of CeF_3 calorimeter using high energy beam indicates promising features for the next main detector as well as the collar counters.

- A systematic test was successfully performed for calorimeter with WLSF readout using 1-m prototype of the barrel calorimeter.

- High QE PMT is developing for WLSF readout (~500nm wave length).