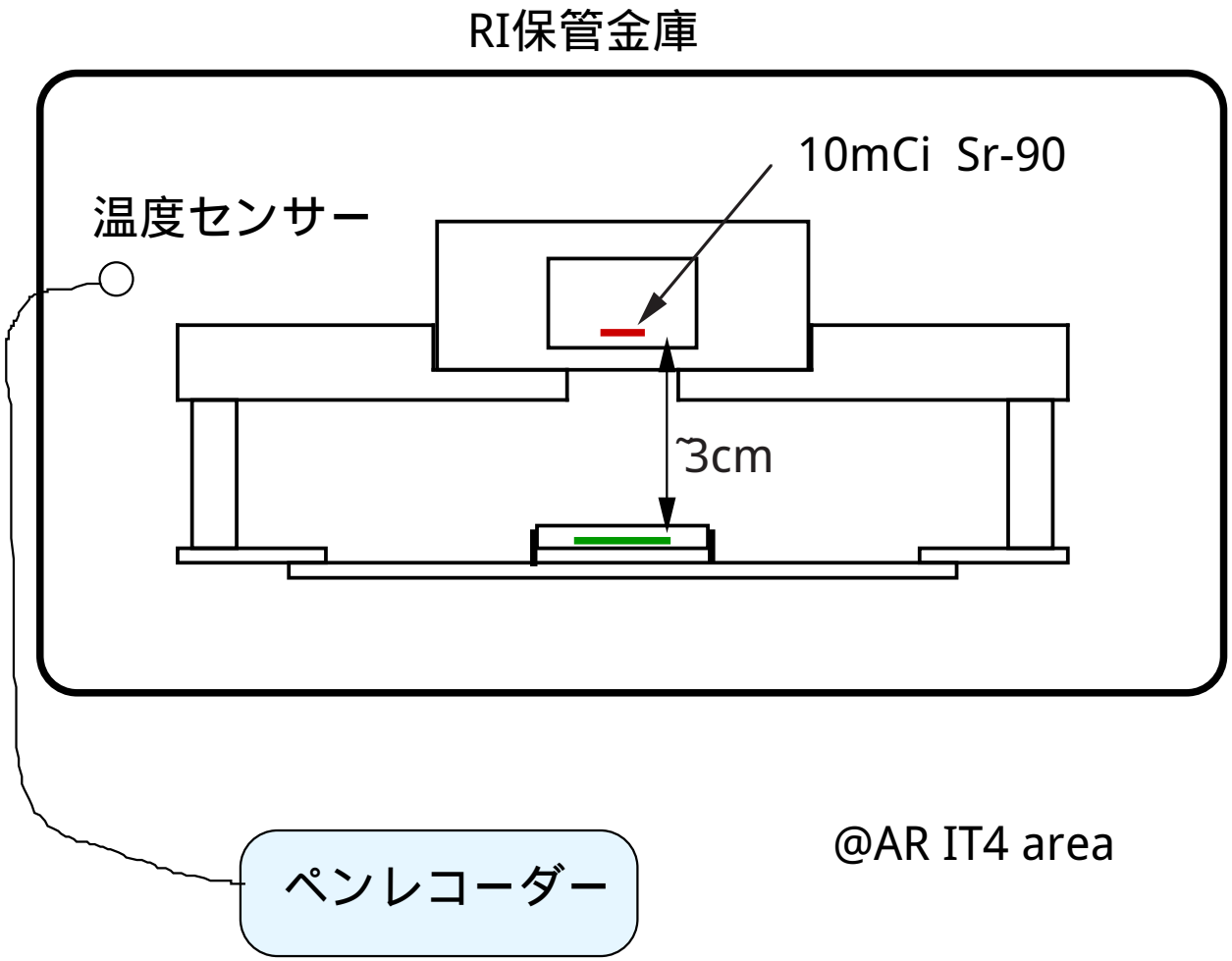
# KEKでのβ線照射




@AR IT4 area

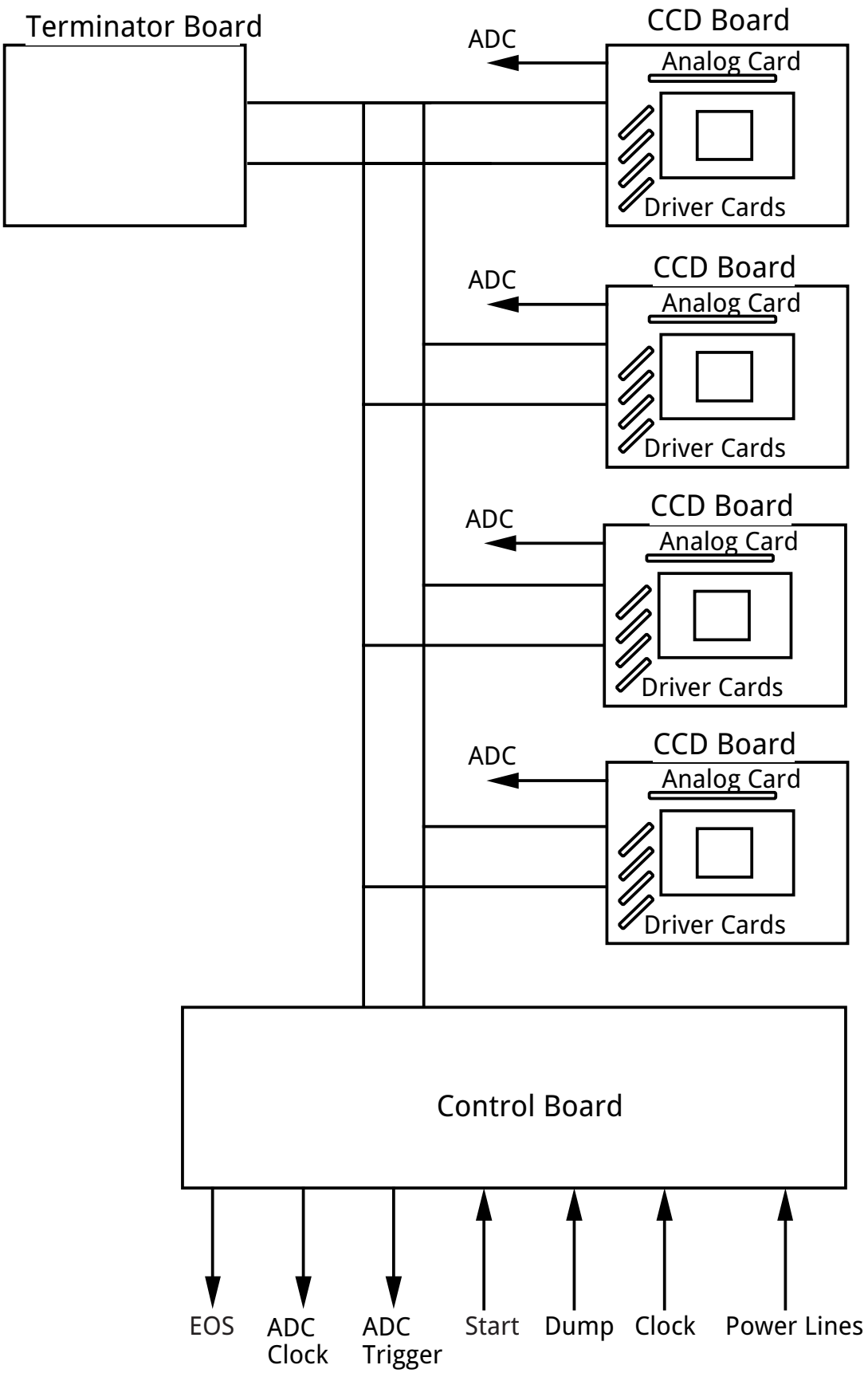
$10\times10^{-3}\times3.7\times10^{10}\times1/(4\pi\times3^{2}) = 3.3\times10^{6}/cm^{2}/s$

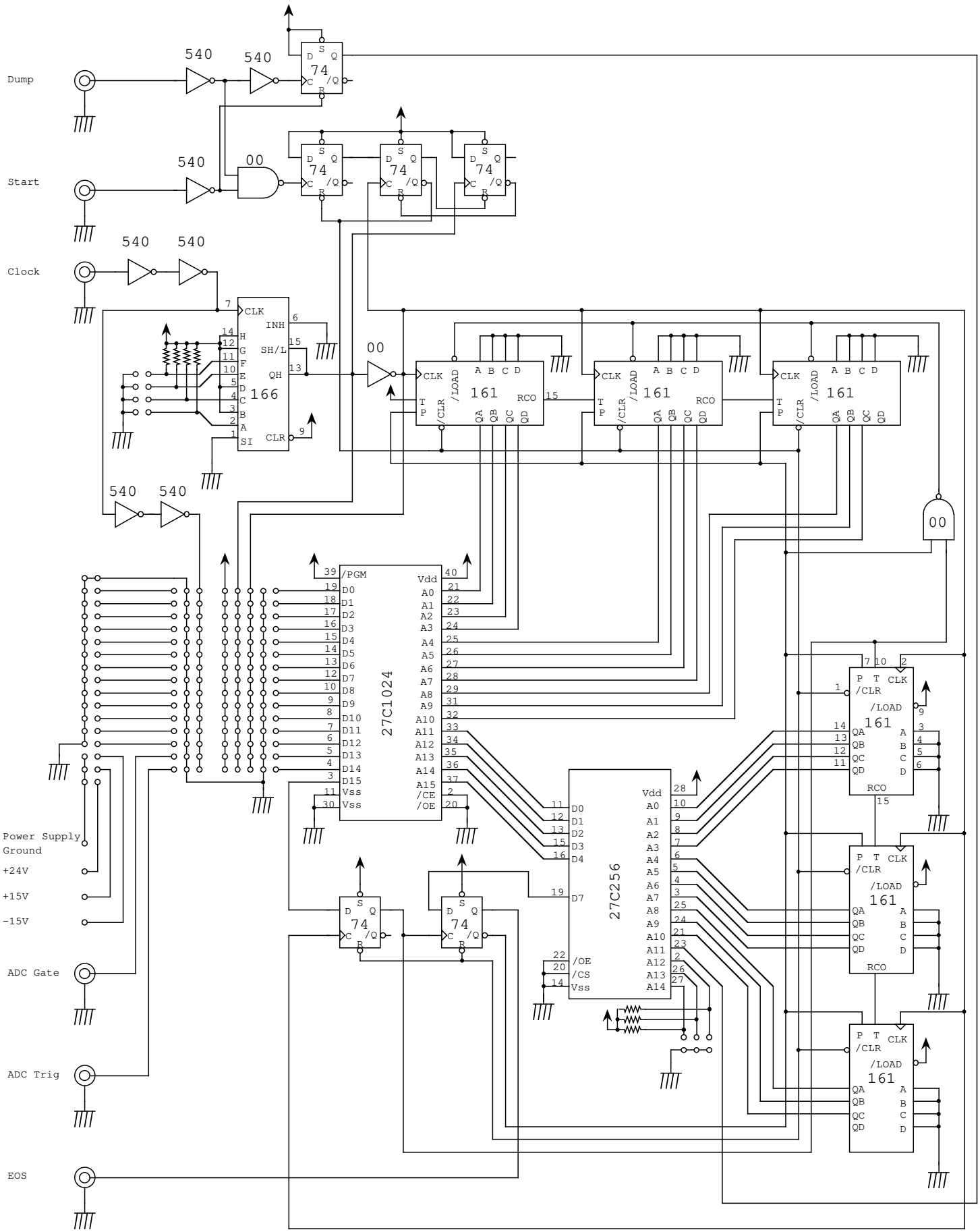
→19日で $5.4\times10^{12}/cm^{2}$ ~JLC 1年分

JLC: $360/cm^{2}/train\times150Hz\times10^{7}s/year = 5.4\times10^{11}/cm^{2}/year$
=15kRad/year

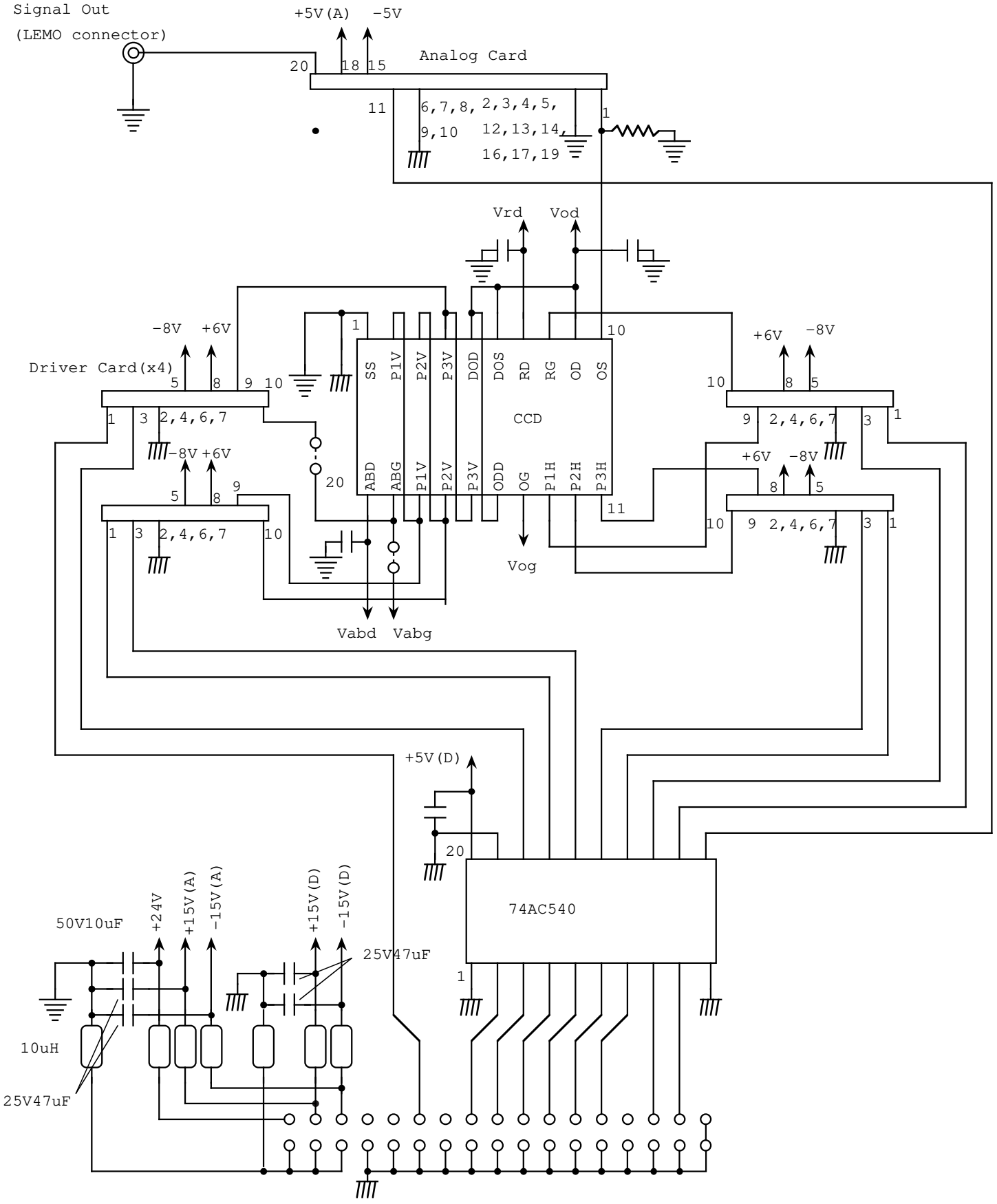
(NIEL@20MeV = 10× NIEL@1MeV)

# New Readout/Drive Circuit

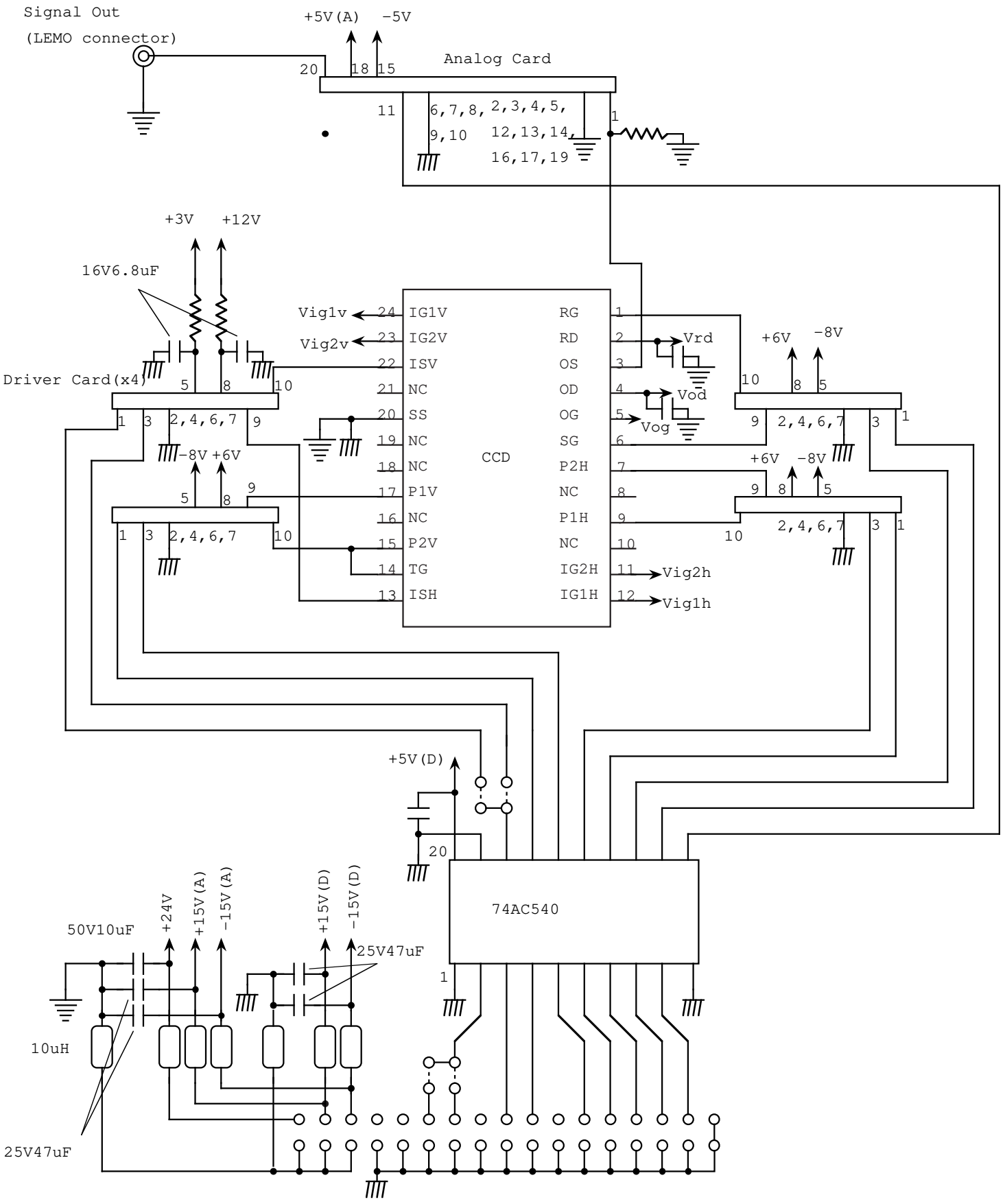



Dump
Start
Clock
ADC Gate
ADC Trig
EOS
Power Supply
Ground
+24V
+15V
-15V
540
00
74
166
161
27C1024
27C256
CLK
INH
SH/L
QH
CLR
SI
/LOAD
RCO
/PGM
Vdd
Vss
/OE
/CE
/CS

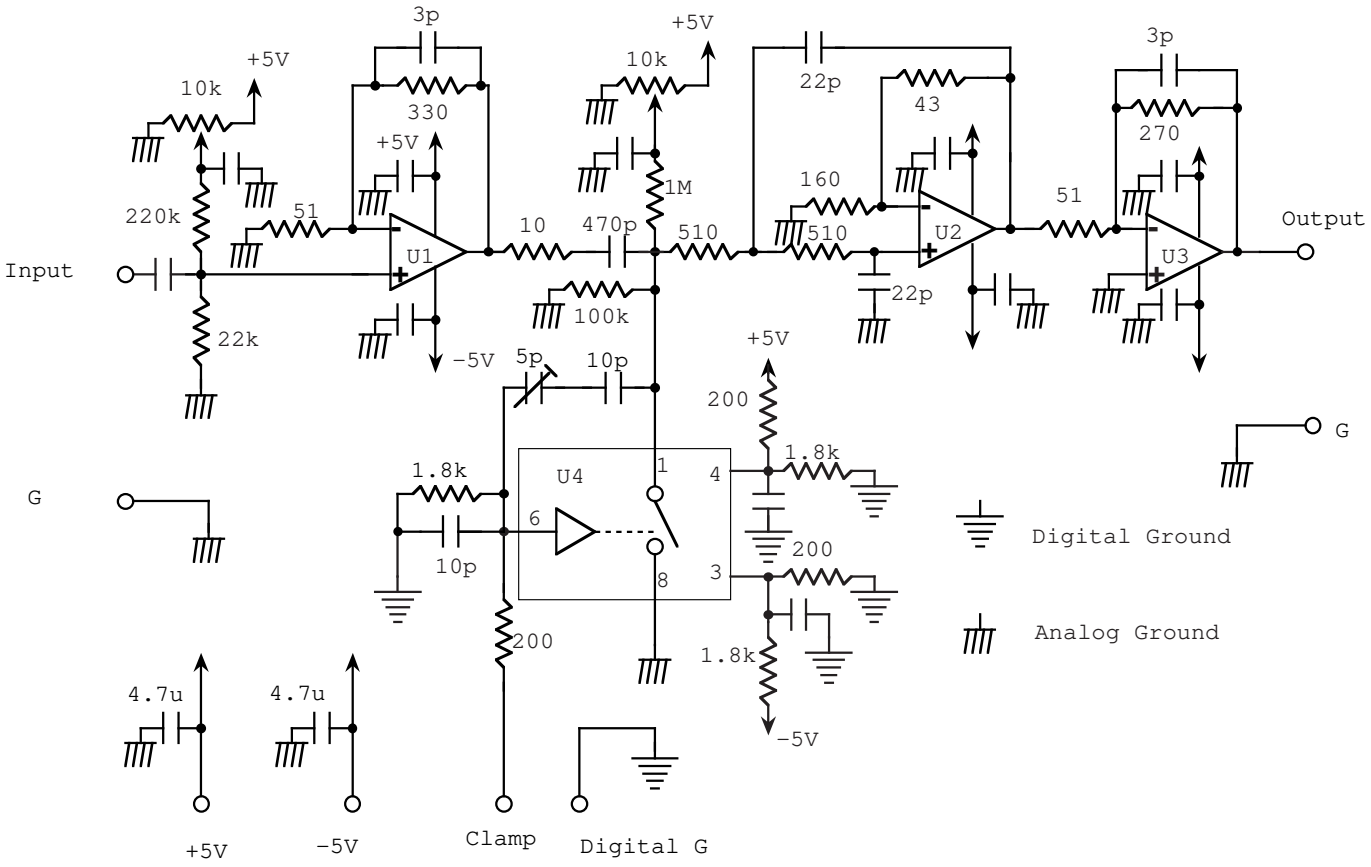
# CCD Board for EEV (1/2)



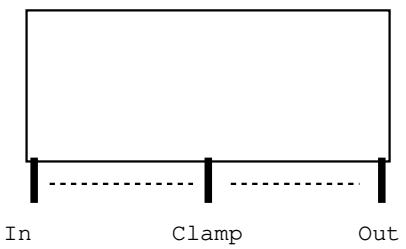
# CCD Board for Hamamatu (1/2)



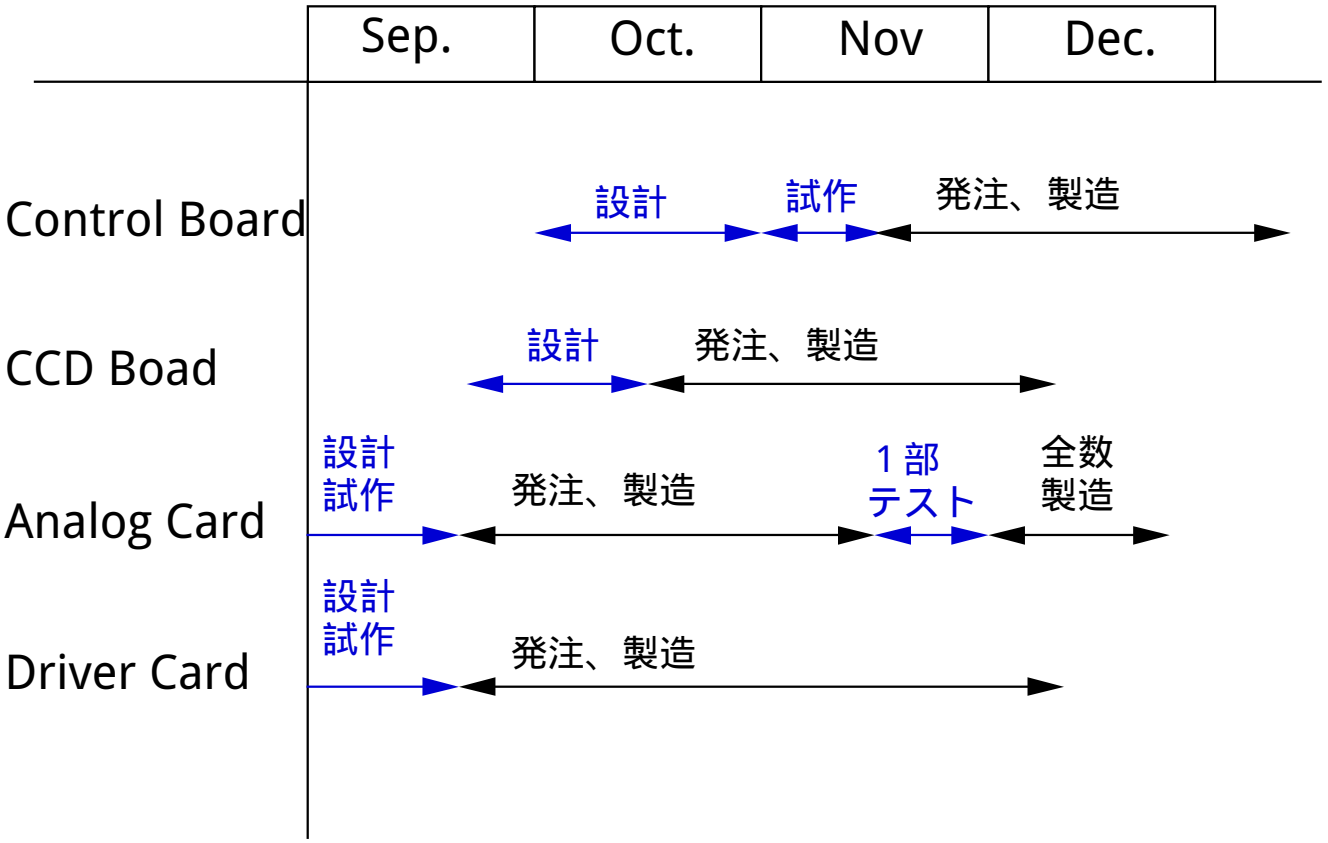
# Analog Card for CCD




U1 MAX4106ESA
U2 MAX477ESA
U3 MAX477ESA
U4 PI5A318A
Capacitors not specified are 0.1uF



# Status/Schedule for Electronics



# 次回ビームテストに関して

## 目標

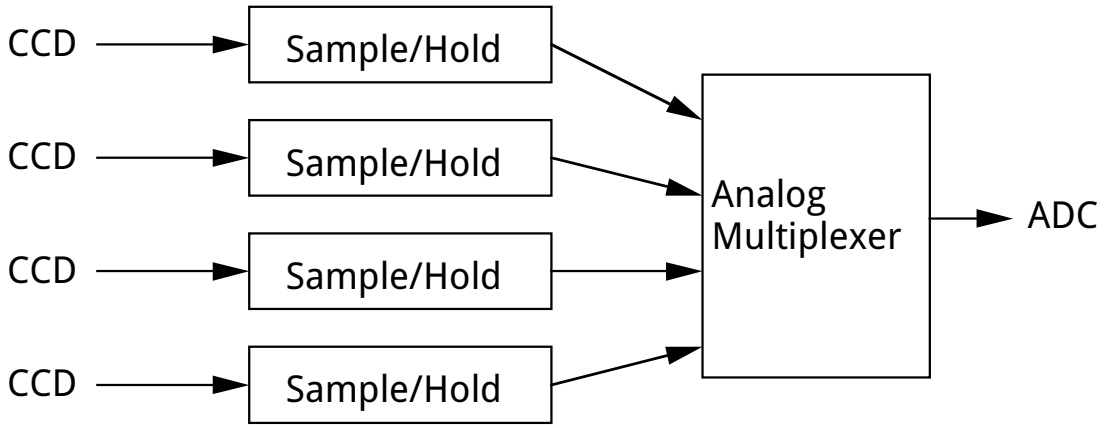
1) Spacial Resolution

2) EEV

3) New Readout/Drive Circuit

## 時期

'97-4 cycle: Jan.13 -- Mar.13の間のどこか

## Set Up

・CCD ４層をならべる
・ADCは１台