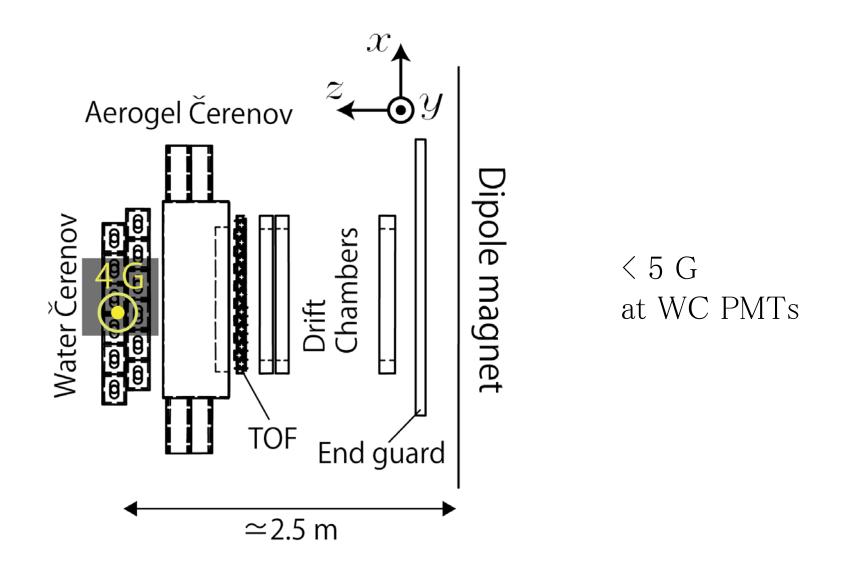
# S-2S meeting



28Mar2016 Toshiyuki Gogami

#### Stray magnetic field from S-2S D



#### Helmholtz coil

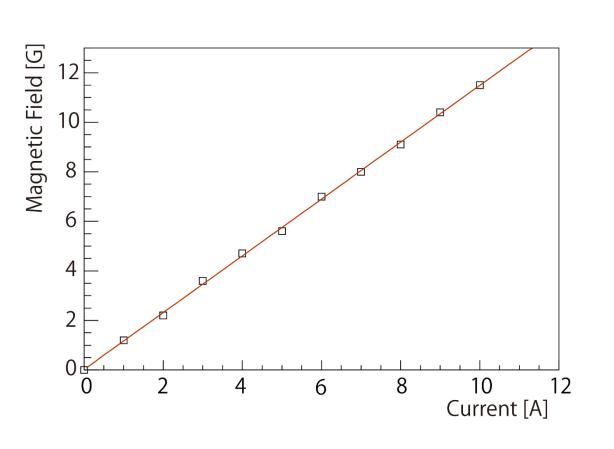


Helmholtz coil 50 turns × 2 R = 400 mm

"ミスミのアルミフレーム" + "被膜ケーブル" (外径 5.5 mm) Helmholtz coil 励磁成功



### Uniformity of magnetic field

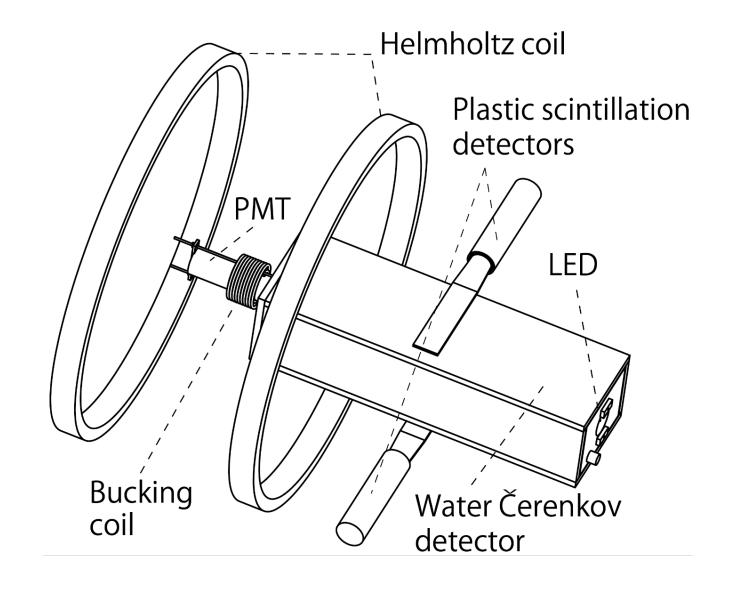


Central volume  $200 \times 200 \times 100 \text{ mm}^3$ 

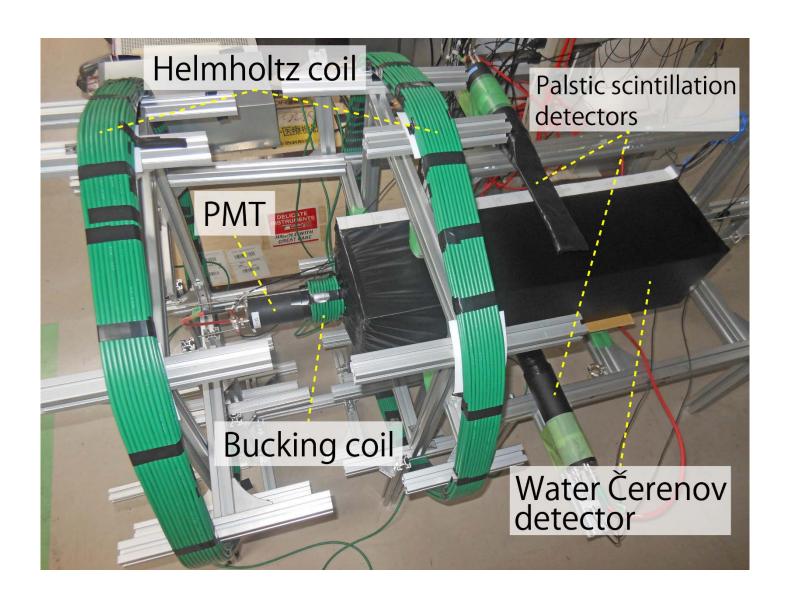
磁場の一様性: 
$$\frac{\Delta B_y}{B_y} < 1\%$$

他の成分: 
$$\frac{B_{x,z}}{B_y} < 3\%$$

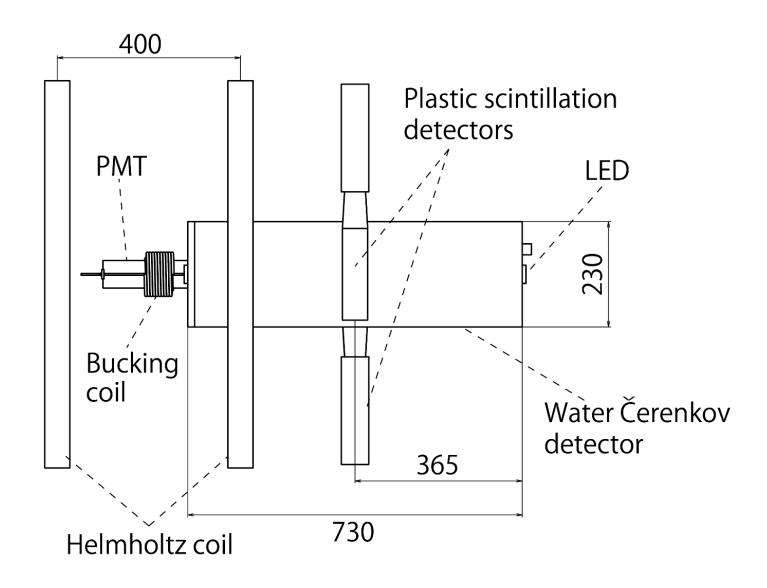
# Experimental setup



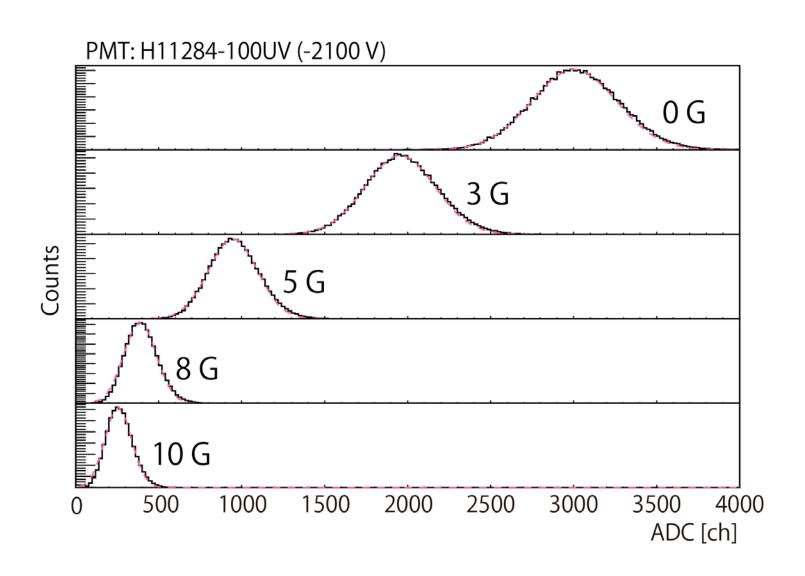
## Experimental setup (photograph)



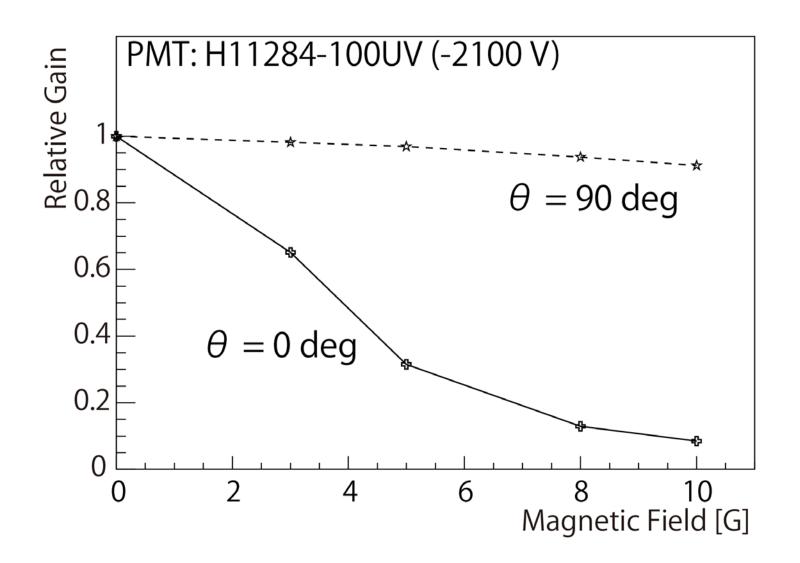
# Experimental setup (top view)



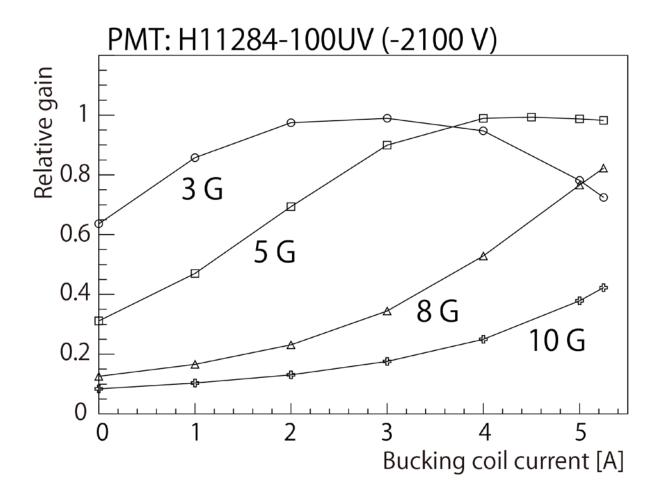
### Magnetic field vs. ADC



### Magnetic field vs. ADC

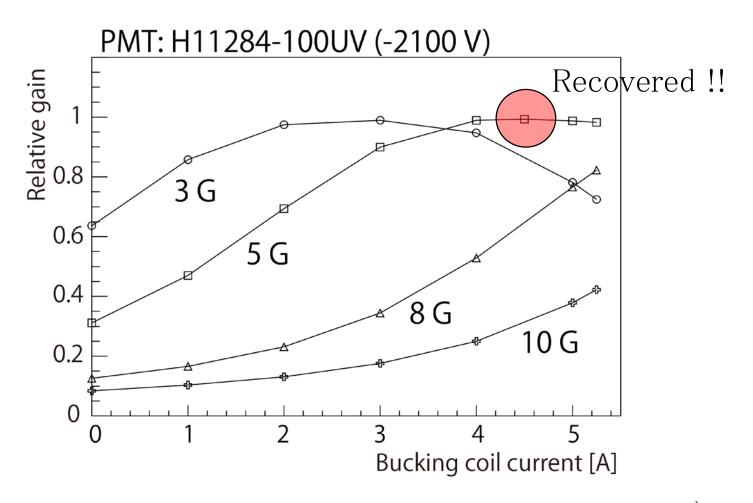


# Gain recovery with a 20-turn bucking coil



(The bucking coil was started winding at around 3 cm apart from the photocathode.)

# Gain recovery with a 20-turn bucking coil



(The bucking coil was started winding at around 3 cm apart from the photocathode.)

### Cosmic-ray test is in progress



5 G環境下でWCの 宇宙線テスト: bucking coil ON/OFF

In Progress!