

# Status Report

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# Computer Broken

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- My desktop broke down on Mon. It failed on booting.
- Tried to repair by myself, but failed. Called Dasan.

# Computer Repaired

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- Dasan A/S man came and he said 'sub HDD (2 TB) has died'.
  - Recovering data would take more than ₩400,000.
  - My data is not that large. No matter.
  - But it has a back-up data of the original user. It may be a problem someday...
  - Who have worked in room 307?
- Removing that bad HDD solved the problem. Now my desktop works.
- I'm mining any other usable hard drive.

# Cherenkov Radiation Light Number

- According to Leo, we can get the emitted photon number from the formula

$$\frac{dN}{dx} = 2\pi z^2 \alpha \left( 1 - \frac{1}{\beta^2 n^2} \right) \int_{\lambda_1}^{\lambda_2} \frac{d\lambda}{\lambda^2}$$

- Our PMT(R329 in H7195) has range between 250 nm and 700 nm.
- $z = 1$  (muon charge) and  $\alpha = \frac{1}{137}$ .  $\beta \simeq 1$  and  $n \simeq 1.5$  gives

$$\Rightarrow \frac{dN}{dx} = 655 \text{ photons/cm}$$

