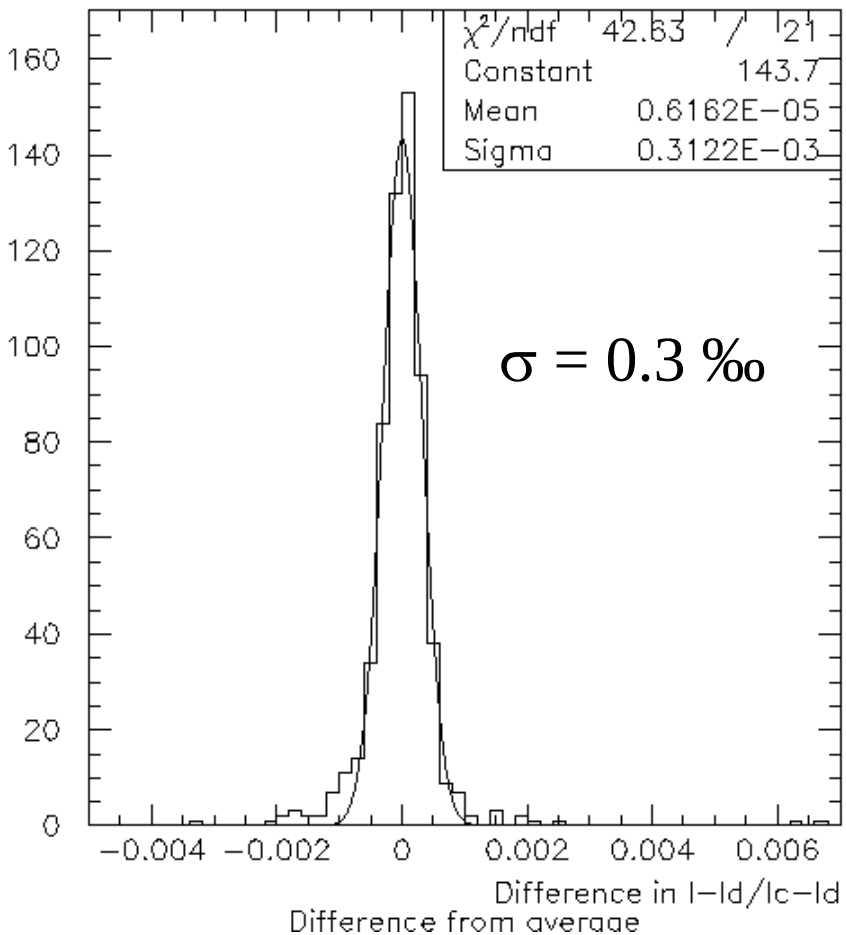
Test bench results on LEDs

- Reproducibility of spatial distribution
- Spatial distribution of flux
- Luminosity measurements on two types of LEDs
- Stability of flux

Field reproducibility and precision

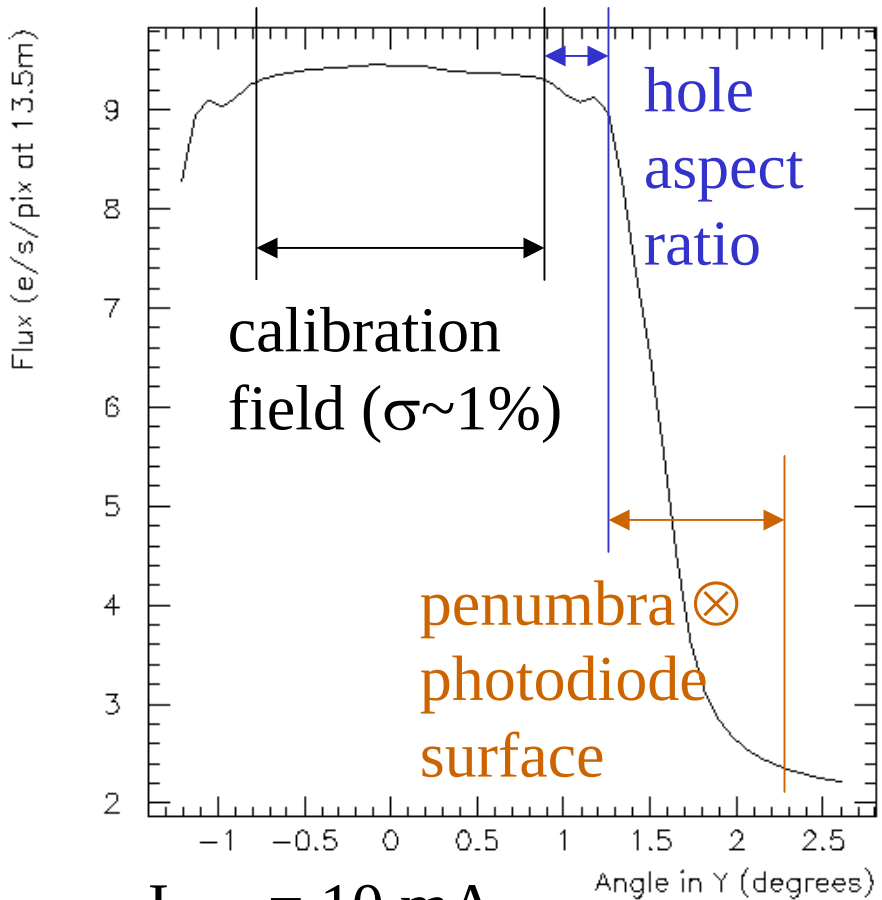


- Difference from average of 5 field maps taken in 24h
- Variations across the field ~ 10%
- Noise level ~4 fA for a signal ~10 pA

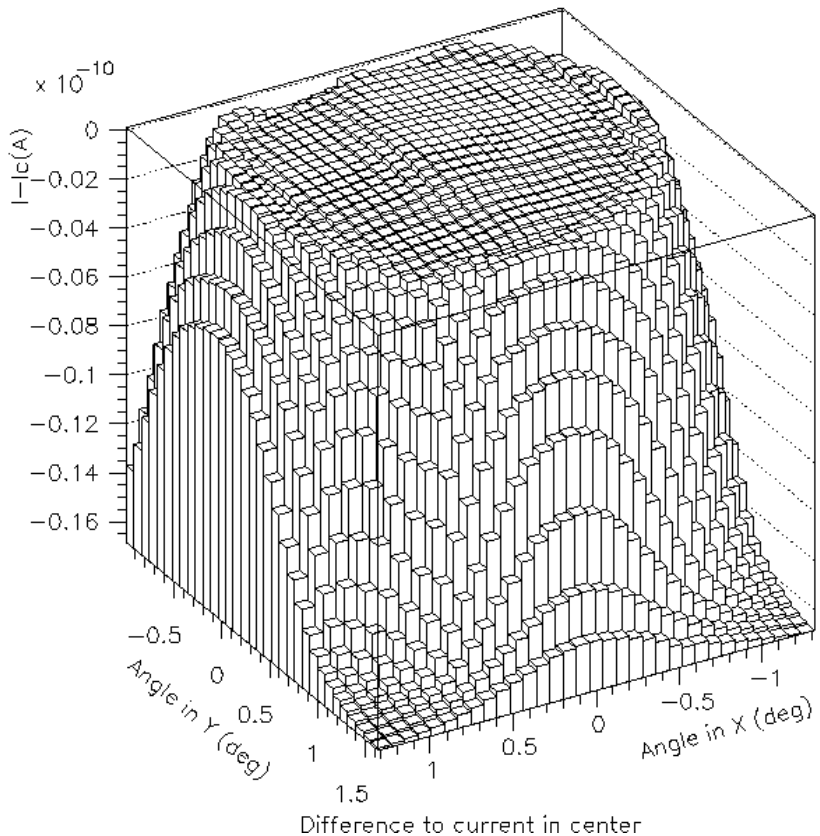
➢ Measured reproducibility = current precision

Field map

- First flat-top LEDs tested

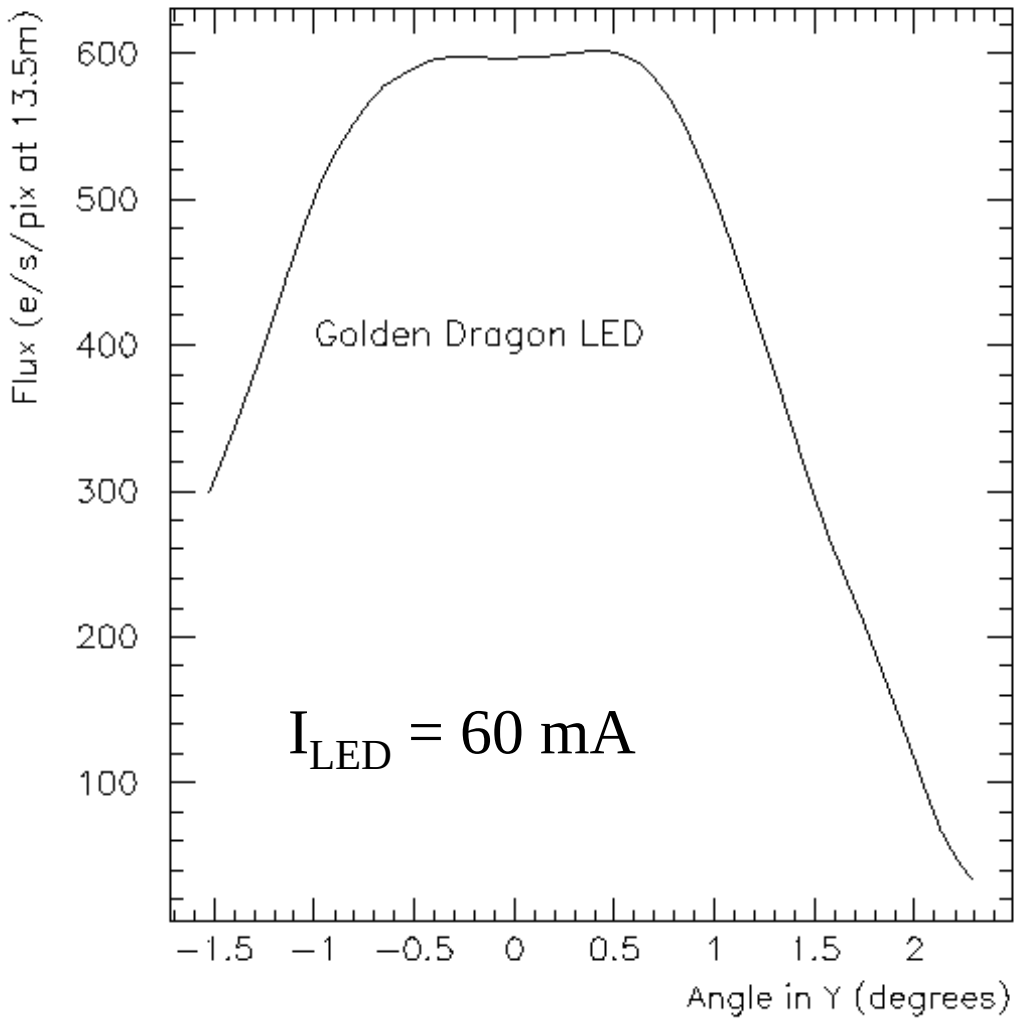


I_{LED} = 10 mA



Luminosity : new LEDs

- First measures on new LEDs
- Higher efficiency : ~5% instead of ~0.5%
- Higher power : up to 400 mW



Stability (2.5 days)

- Measured variations are entirely due to the photodiode
- Temperature effect on photodiode dark current + variation in readout leak current