

Paul and KK

Summer R&D

*Are backgrounds at Mainz test same as backgrounds in MOLLER apparatus?
Is 0.2 light guide event/electron assumption conservative, aggressive or realistic?*

- **Scintillation**
 - what is the light guide efficiency as a function of depth for scintillation?
 - LED measurements: mimic scintillation at various depths in the light guide: reasonable?
- **Delta rays and Bremsstrahlung**
 - MC Studies:
 - Production as a function of angle in 500 micron foil
 - Significant production in air before detector?
 - Production in air light guide material
 - Source tests
 - Low energy gamma & alpha source with a scintillator: ionization produces any signal?

Outcome of tests and MC studies will allow us to devise better tests for December test beam