

# TITAN meeting

Thu August 19<sup>th</sup>, 2010 (13:00)

*Present:* Tim, Vanessa, Martin K., Aaron, Thomas, Mel, Paul, Matt, Usman, Stephan, Martin S.

*Main topic:* plans for the upcoming discretionary beam time and status of preparations.

## **Stephan (Paul):**

*On the plus side:*

MPET is ready

Drifts (which have been observed during the previous beam time) have disappeared. Many fans had been installed to cool power supplies and Behlke switches, however, the outside temperatures went down as well. Therefore, it can't be deduced that temperature related problems have been solved.

*To be solved:*

Stability of the switch of the beam gate → change Behlke switches

Small mass dependent shift (mass of  $^{39}\text{K}$  is 800eV off using  $^{23}\text{Na}$  reference) → will add systematic uncertainty to results, however, magnitude not critical.

(Paul) He-pressure of MPET magnet controlled by mechanical valve (approx. 1 psi above ambient, which is changing) → find out, whether existing absolute pressure controller can be activated again.

*To be measured during the beam time:*

Tuning of beam with  $^{27}\text{Al}$  (stable, highest yields, current measurements possible). First measurement on rare isotope with highest yield:  $^{29}\text{Al}$  ( $\sim 10^6$  per s). Continue with  $^{30}\text{Al}$ ,  $^{28}\text{Na}$ ...

*Confirmation of shift mode:*

Day shift (8am-8pm) – Stephan, Aaron

Night shift (8pm-8am) – Vanessa, Thomas, Martin S.

Intermediate shifts – Paul (4am-4pm), Matt (4pm-4am)

*Meeting ends 13:30*