

Plan for next SMD shifts

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Dark Count Rates

- At aging test stand, using HRPPD #27, the dark count rate from 64 channels is obtained as ~ 100 Hz/cm². (Test reports give 1000 Hz/cm².)
- Consistent with run 258 (HRPPD #17), whose DCR 158 Hz/cm².

Measurements for next SMD shift

- For DCR, take 20 runs at **1.0 T**, 30 runs at **1.3 T**, 40 runs at **1.5 T**, 40 runs at **1.8 T**. Each run takes 80 second, assuming 3 minutes for B field transition, $130*80+4*180=11\text{k seconds} = 3.1 \text{ hours}$
- In addition, using oscilloscope to measure DCR at 1.8T. (1-3 minutes.)
- For timing with DSR4, take runs at a few B field strengths, each B field point one run: **0.2 T, 0.4 T, 0.6 T, 0.8 T, 1.0 T, 1.3 T, 1.5 T, 1.8 T**. $8*80+8*180=2080 \text{ seconds} = 35 \text{ minutes}$.
- Only use nominal operating voltage (675 V) for HV. In total, it is **3 hours 40 minutes**.
- After 5pm, when SMD experts are off duty, we can continue to take 10 runs for DCR and 1 run for timing at **0 T**.