

Arrhenius plots for neutron-irradiated 2x2 APDs from a new batch

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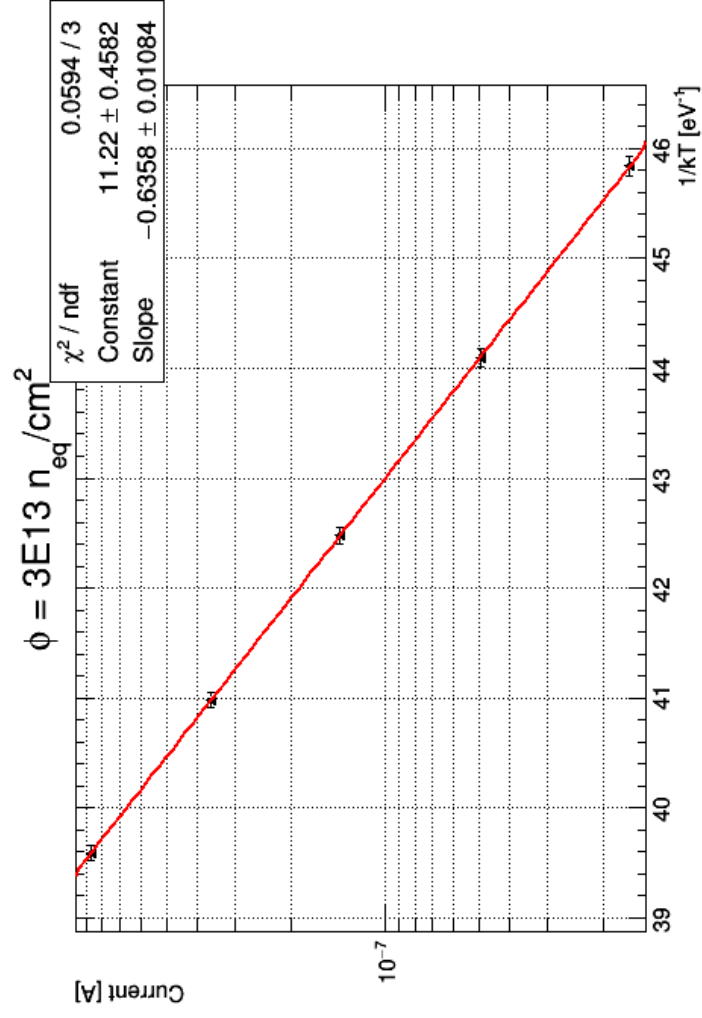
Irradiation campaign

- The samples were sent to the Jožef Stefan Institute (Ljubljana-Slovenia) for neutron irradiation.

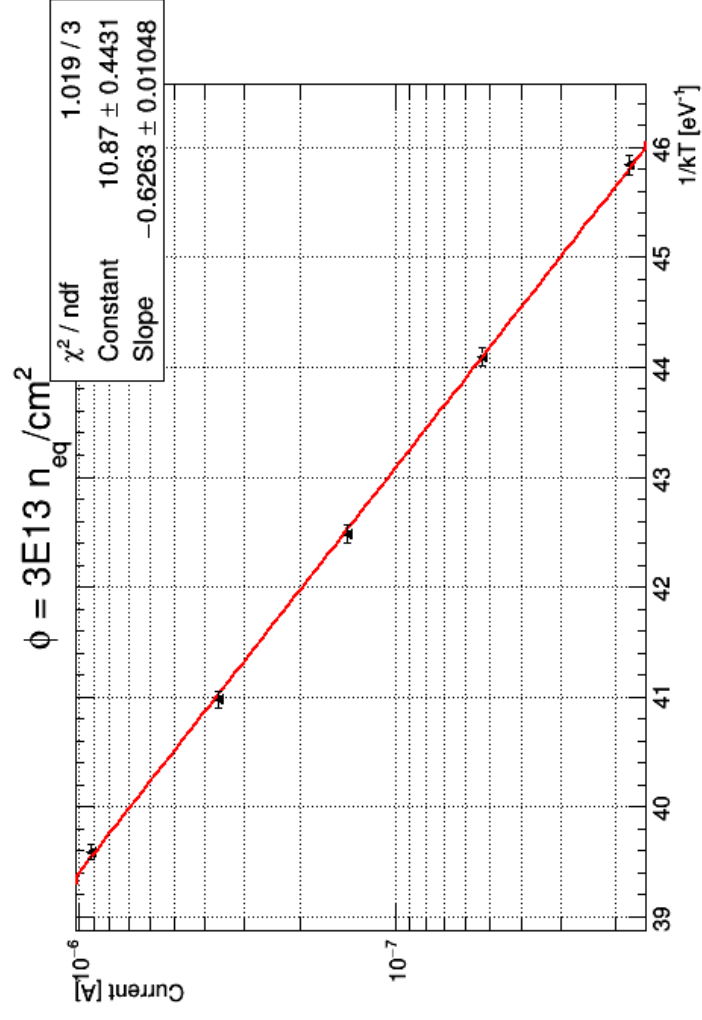
Fluence	N° of samples	Sample name
3E13 n/cm ²	2	APD_2B_1/3
6E13 n/cm ²	2	APD_2B_5/11
3E14 n/cm ²	2	APD_2B_6/4
1E15 n/cm ²	2	APD_2B_7/9

Measurement conditions IV curves

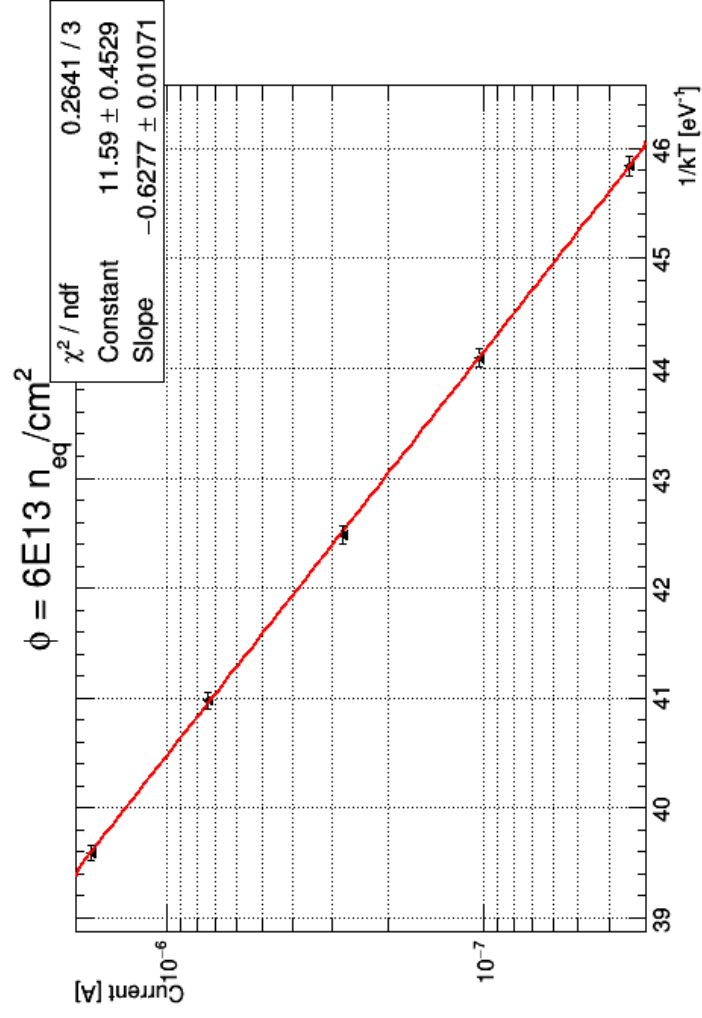
- Biasing from the back (cathode).
- Compliance set to 10 μA .
- Temperature:
 - IV: 20°C, 10°C, 0°C, -10°C, and -20°C.
- Arrhenius plots were obtained for all samples after irradiation.
 - Current measured at 200 V (no gain).



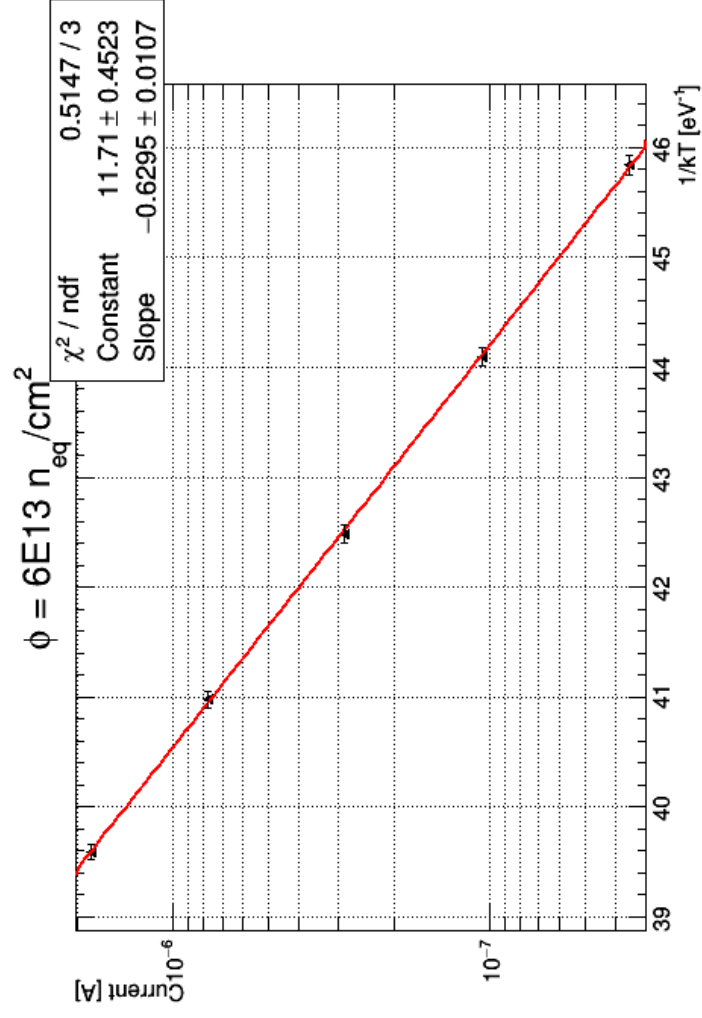
APD_2B_1



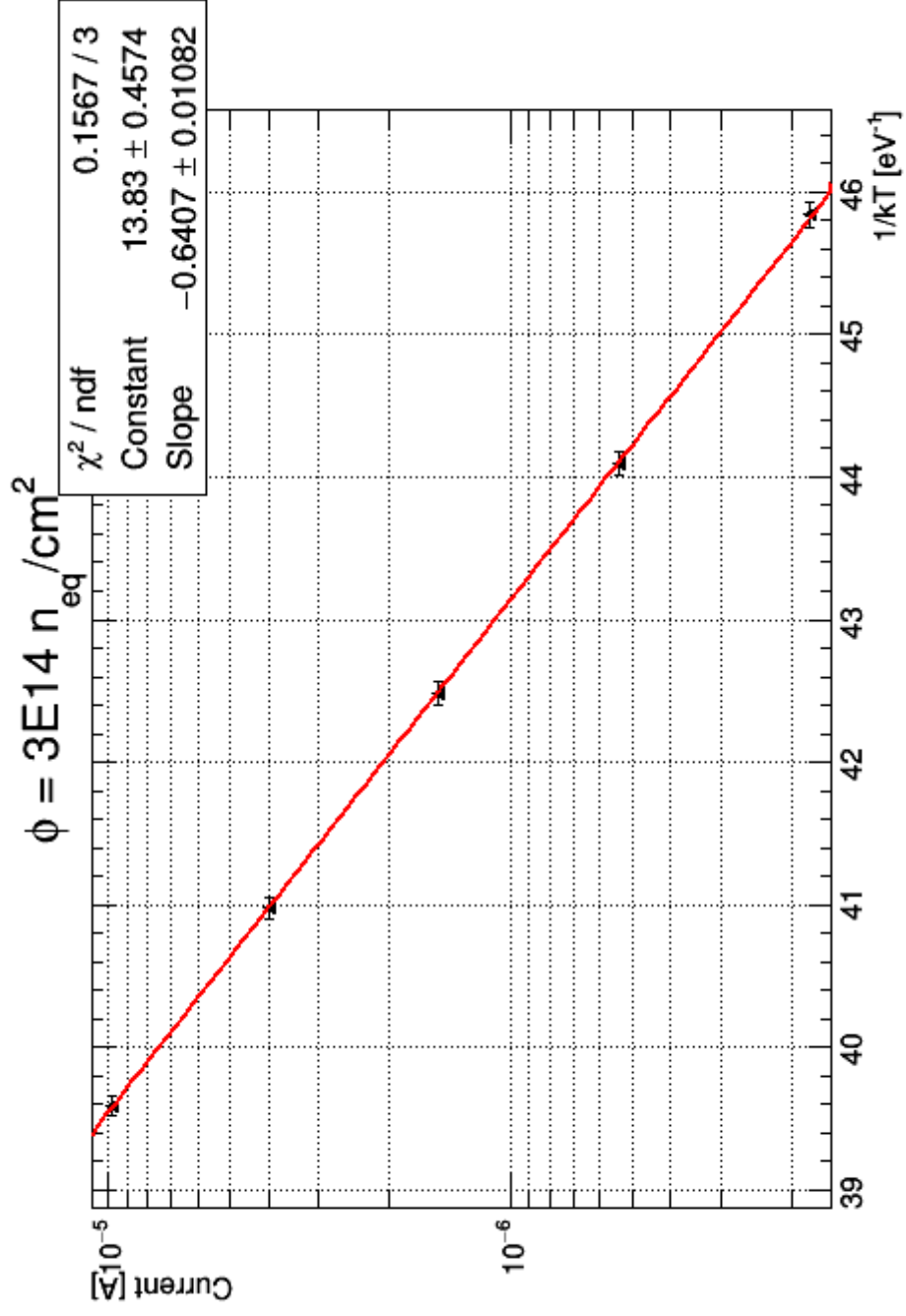
APD_2B_3



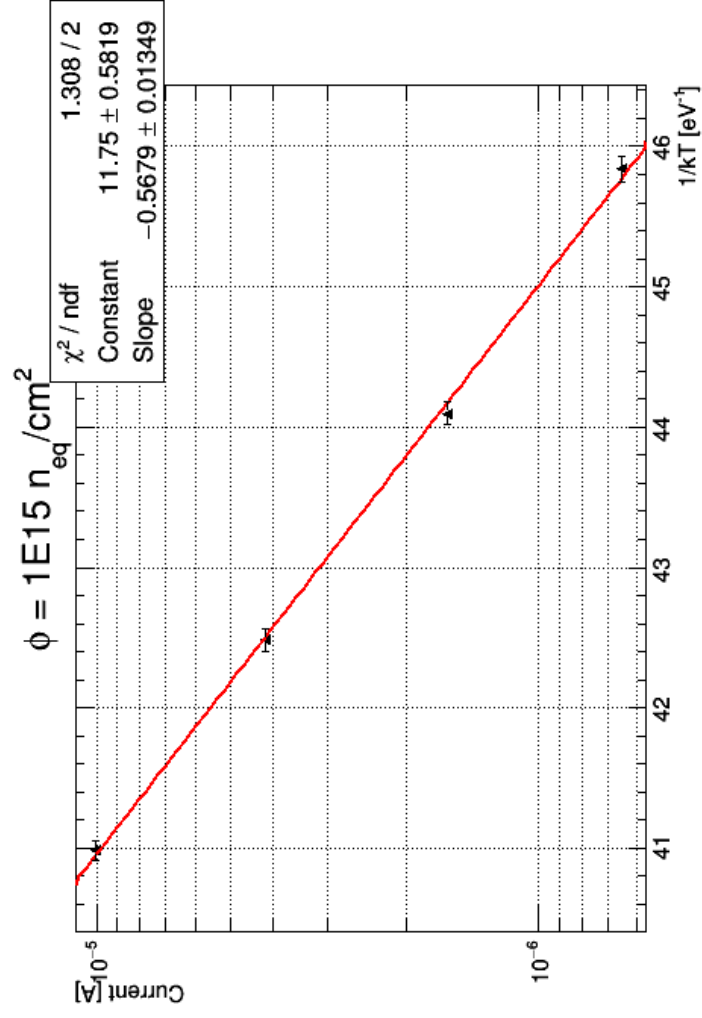
APD_2B_5



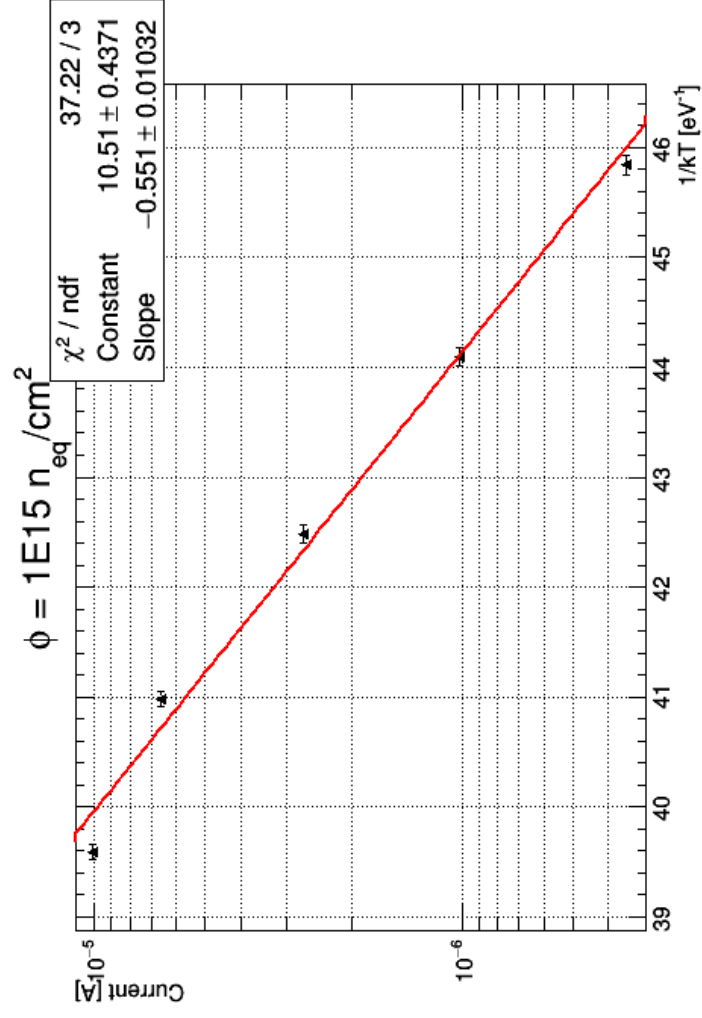
APD_2B_11



APD_2B_4



APD_2B_7



APD_2B_9