

ÖTTINGEN

DHP Temperature on Hybrid5 and PXD9

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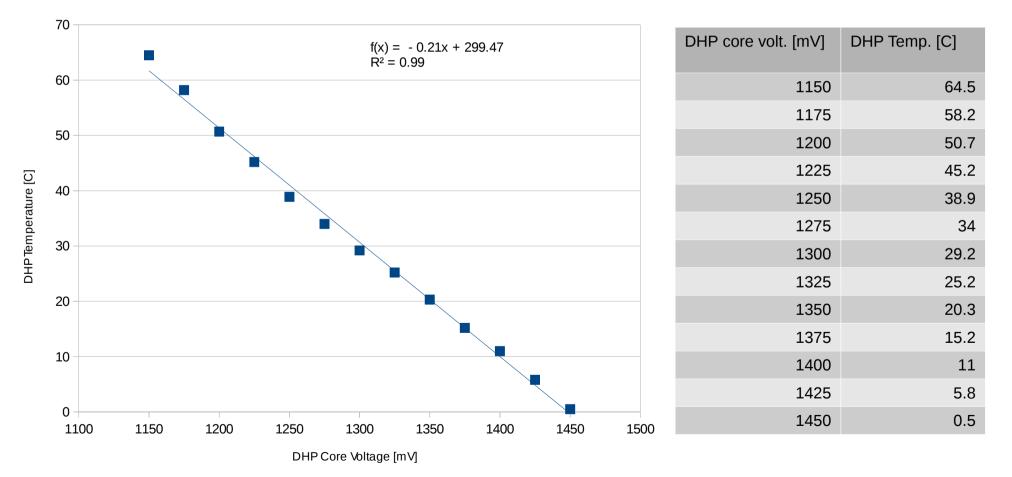
Motivation

- At KEK it was seen that the DHP temperature measurement is not reliable and often does not work at all
- Increased DHP Core voltage seems to help with this issue, though it was observed that the temperature is lower than before
- Therefore we decided to systematically vary the DHP core voltage on a Hybrid5 and a PXD9 module and study if and how the temperature readings change
- DHP4 on W43_IB at Goettingen showed "noisy" behaviour, does this change with increased core voltage?



Hybrid 5

- The measurements have been performed on H5024 (DHP1.1, DCD4.1)
- DHP Core voltage varied from 1150 mV to 1450 mV

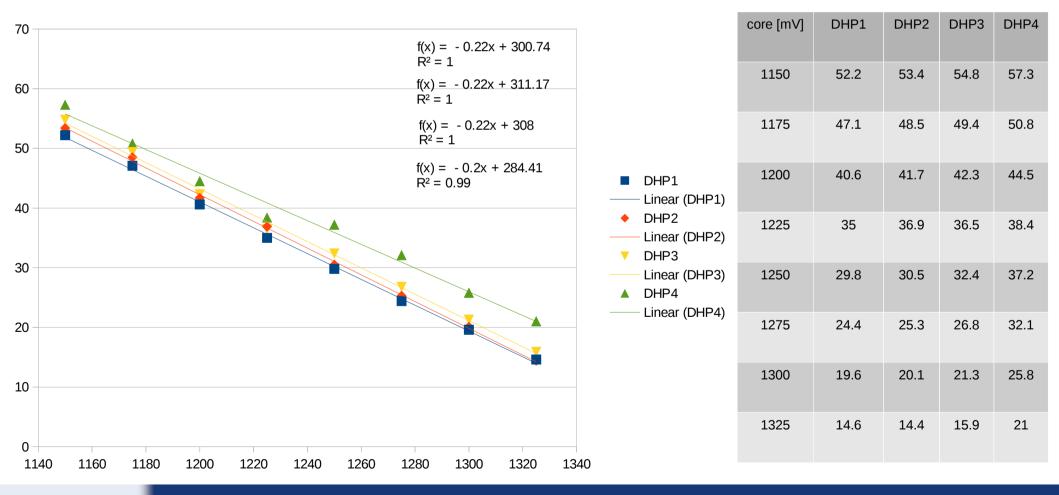


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PXD9

- The measurements have been performed on W43_IB (DHP1.2b, DCD4.2)
- DHP Core voltage varied from 1150 mV to 1325 mV



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DHP Temperature

DHP4 Noise

• Noise on DHP4 gets better when the voltage reaches 1300 mV

