

The Development of NEXT: A New High Resolution Neutron Detector

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This new neutron detector will be able to measure the energy levels of unstable neutron-rich nuclei, but good timing resolution is necessary in order to achieve this. I will be presenting on the idea behind how NEXT will measure these energy levels along with how the detector itself works. I will also show what aspects of the detector have been investigated and how we have improved the timing resolution by around a factor of six.