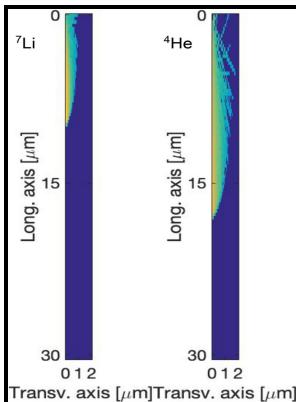


Clinical measurements of past neutron spectra using an organic liquid scintillator fast neutron spectrometer.

University of Birmingham - Feasibility of using boron



Description: -

-Clinical measurements of past neutron spectra using an organic liquid scintillator fast neutron spectrometer.

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Tags: #Characterization #of #a #boron

Characterization of a boron

For this application, the simulation results show that various configurations of boron-loaded plastic scintillating fibers have a die-away time τ of 12 μs with an efficiency ϵ of 50%. We further find a surprising outcome: usage of the exact CPD is actually bad for parameter estimation.

Neutron energy spectrum measurements with a compact liquid scintillation detector on EAST

It is optically connected to the PMT by a light guiding system, both are also shown. While the benchmark algorithm is limited to signal efficiencies smaller than 19%, the proposed algorithm is not limited in efficiency.

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In the Divertor Tokamak Test DTT facility two Thomson scattering TS systems are under design for the measurements of T e and n e in the core plasma region and in the divertor respectively. Two electron guns with different cathode shapes have been designed and compared with each other.

Feasibility of using boron

The required instrumentation needs to be large, sensitive, low cost, and have the ability to measure pulse widths as narrow as 5 ns or less. Compact NE213 neutron spectrometer with high energy resolution for fusion applications. The electron and fission events as well as certain classes of pile-up can clearly be distinguished see details in the caption of Fig.

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