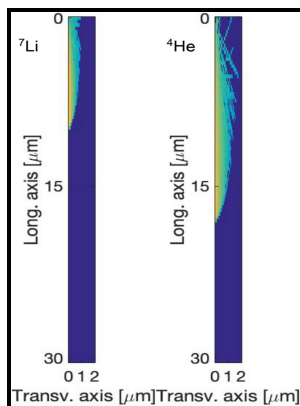


# Clinical measurements of past neutron spectra using an organic liquid scintillator fast neutron spectrometer.

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  $\tau$  of 12  $\mu$ s with an efficiency  $\epsilon$  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.

## Journal of Instrumentation, Volume 15, January 2020

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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