Neutron Imaging of Diesel Particulate Filters
Poster 3

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What is Neutron Imaging?

Non-invasive, non-destructive technique based on attenuation of the neutron beam.

Neutrons interact with nuclei and their scattering power does not vary in any regular way with atomic number.

Neutrons can see through thick materials such as metals.

NI of Cordierite Particulate Filters

Photograph and Neutron Radiograph

5.66” x 6” Cordierite DPF

Neutron Data

Soot and Ash loading in DPFs visible with neutron computed tomography

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Courtesy of E. Lehmann and N. Kardijlov