Contribution ID: **1** Type: **Talk**

Neutron computed tomography and liquid contrast agents for the examination of materials

Thursday 31 July 2025 10:00 (20 minutes)

Neutron computed tomography penetrates many metals easily while showing good contrast for many light elements, often showing contrast pretty much complementary to X-rays.
Neutron CT also provides the possibility of using liquid contrast agents containing Gadolinium that has extreme contrast for neutrons, and can be used to detect cracks and capillary properties of materials. In the past, Carbon-fiber based plasma delimiters have been examined for IPP, and delamination between the carbon fiber matrix and the copper base was shown. The talk will show these previous examinations and other examples for the use of neutron CT.

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Session Classification: Session 8