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X-Ray Diagnostics of Cavitation and Sprays

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Scientists at Argonne National Laboratory have been developing synchrotron-based diagnostics for fuel injection, cavitation, and sprays. This presentation will outline the capabilities of several diagnostics, including time-resolved radiography, small-angle scattering, x-ray flourescence, and phase contrast imaging. Applications of these techniques to measurements of droplet size, cavitating flows, and fuel/air mixing will be presented.

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