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Acoustic discrimination in superheated liquids

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Particle traversing superheated liquids can trigger phase transition accompanied with acoustic emission which can be capture with piezo electric sensors. Energy above threshold has to be deposited within a critical length for such process to happen for a given set of operating temperature and pressure which can be calculated with Seitz theory. Knowing those informations, particle discrimination can be made. Knowledge of cross section of elements present in liquid allows understanding of detectors count rate behaviour as a function of threshold energy.

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