

# **A Method to Initiate an LENR Reaction in an Aqueous Solution**

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This paper reports a protocol that enables one to initiate an apparent LENR reaction in a specific solution and under specific conditions. The protocol consists of a series of steps taken in a sealed reactor, involving heating an aqueous solution of a soluble polyhedral silsesquioxane that hosts lithium ions in a cubic cage to within 5°C of the solution's boiling point, then applying electrical and photonic stimuli between conductive electrodes immersed in that solution over an extended period. After that stimulation, the temperature of the solution is raised above the boiling point. The pressure is then reduced in an impulse, thereby driving a phase change in the solution. That phase change has been demonstrated to initiate an exothermic reaction, followed by a momentary reduction in both temperature and pressure, as would be expected when pressure drops in such a reactor and the gas expands. However, within a very short time after the pressure drop, the temperature rises in both the solution and the headspace above it. That temperature rise violates Gay-Lussac's Law and is evidence the reaction is exothermic.