

Abstract Submitted
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Transient Formation of keV Super-Explosives under High Pressure for Thermonuclear Ignition.¹ FRIEDWARDT WINTERBERG, University of Nevada Reno — At pressures of the order 100 Mb, chemical reactions at keV energies can take place, leading to molecular configurations through the binding of the inner electron shells. For this reason, matter suddenly put under high pressure can form a super-explosive, which releases intense bursts of keV-X ray photons, powerful enough for the ignition of thermonuclear reactions.

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