

Abstract Submitted
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On a Heuristic Point of View About Inertial Deconfinement of Quarks V. ALEXANDER STEFAN, Institute for Advanced Physics Studies (Stefan University), 1010 Pearl Street, La Jolla, CA 92038-2946. — I propose a novel heuristic method for the deconfinement of quarks.¹ It proceeds in two phases. Firstly, a frozen hydrogen pellet is inertially confined by the ultra-intense lasers up to a solid state density. Secondly, a solid state nano-pellet is “punched” by a femtosecond TeV-photon beam created in the beat wave driven free electron laser (BW-FEL),² leading to the “rapture” (in a “karate chop” model) of the “MIT Bag”³ before the asymptotically free quarks move apart. The threshold “rapture force” of the TeV photon is 10^8N .

¹M. Gell-Mann. **The Quark and the Jaguar: Adventures in the Simple and the Complex** (New York, NY: W.H. Freeman and Co., 1994) [cf. M. Gell-Mann, *The Garden of Live Flowers* in: V. Stefan (Editor), **Physics and Society. Essays Honoring Victor Frederick Weisskopf** (Springer, 1998), pp. 109-121].

²V. Alexander Stefan. **Beat Wave Driven Free Electron Laser** (S-U-Press, 2002, La Jolla, CA)[cf. V. Stefan et. al., **Bull. Am. Phys. Soc.** 32, No. 9, 1713 (1987)]

³J. I. Friedman and H. Kendall, *Viki*, in: V. Stefan (Editor), **Physics and Society. Essays Honoring Victor Frederick Weisskopf** (Springer, 1998), pp. 103-108].

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