

Abstract Submitted  
for the APR11 Meeting of  
The American Physical Society

**On the 0.17-yoctosecond fission-time** CHRISTIAN YTHIER, SABET HACHEM, GENEVIEVE MOUZE, University of Nice — The rearrangement time of nuclear fission occurs within 0.17 yoctosecond in a new state of nuclear matter characterized by the formation of closed shells of 82 and 126 nucleons [1] . The lifetime of the new phase can now be determined [2] on the basis of the prompt-neutron emission law [3]. Arguments are presented in favor of an ephemeral disappearance of the charge of the protons of the fissioning system, as if positive and negative W boson fields had to play a role in the formation of this new state.

[1] G. Mouze, S. Hachem and C.Ythier, arXiv:1006.4068 [nucl-ex] June 29, 2010;

[2] C.Ythier, S. Hachem and G. Mouze, arXiv:1101.1819 [nucl-ex] January 11,2011.

[3] J. Terrell, Phys.Rev 108 (1957)783.

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Date submitted: 14 Jan 2011

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