

# **Nuclear Fusion Energy**

- **Magnetic fusion energy (MFE)**
- **Inertial fusion energy (IFE)**
- **Muon catalyzed fusion**

# Muoncatalyzed Fusion

**F. Mulhauser, Triumph**



## **Muoncatalyzed Fusion:**

**Muon-Catalyzed Fusion and Fusion with Polarized Nuclei** B. Brunelli, G.G. Leotta, 2013-11-11 The International School of Fusion Reactor Technology started its courses 15 years ago and since then has maintained a biennial pace. Generally each course has developed the subject which was announced in advance at the closing of the previous course. The subject to which the present proceedings refer was chosen in violation of that rule so as to satisfy the recent and diffuse interest in cold fusion among the main European laboratories involved in controlled thermonuclear research. CTR In the second half of 1986 we started to prepare a workshop aimed at assessing the state of the art and possibly of the perspectives of muon catalyzed fusion. Research in this field has recently produced exciting experimental results open to important practical applications. We thought it worthwhile to consider also the beneficial effects and problems of the polarization of the nuclei in both cold and thermonuclear fusion. In preparing the 8th Course on Fusion Reactor Technology it was necessary to abandon the traditional course format because the influence of the workshop procedure was inevitable: the participants were roughly equally divided into experts in cold fusion and experts in thermonuclear fusion. The course had largely an interdisciplinary character as many disciplines were involved: atomic and molecular physics, nuclear physics, accelerator technology, system analysis, etc. Plasma physics was excluded with a sigh of relief from the experts in thermonuclear fusion.

*Muon-Catalyzed Fusion and Fusion with Polarized Nuclei* B. Brunelli, G. G. Leotta, 2014-01-15      Muon Catalyzed Fusion  
Process Myeung Hoi Kwon, 1987      **Muon-catalyzed Fusion**, 1989      Some Thoughts on the Muon Catalyzed Fusion  
Reactor, 1986      **Muon-catalyzed Fusion Theory**, 1989 Muon catalyzed fusion  $\mu$ CF has proved to be a fruitful subject for basic physics research as well as a source of cold nuclear fusion. Experiments have demonstrated that over 100 fusions per muon can be catalyzed by formation of the  $dt$   $\mu$  molecule in mixtures of deuterium and tritium. After a brief review of the subject's history the  $dt$   $\mu$  catalysis cycle and the principal relations used in its analysis are described. Some of the important processes in the  $\mu$ CF cycle are then discussed. Finally the status of current research is appraised. 52 refs, 7 figs.

The Muon Sticking Factor in Muon Catalyzed Fusion and the Other Aspect of this Fusion Process, 1986      *Proceedings of the International Symposium on Muon Catalyzed Fusion* International Symposium on Muon Catalyzed Fusion (1987, Gatčina), 1988      *Muon Catalyzed Fusion* (Nov. 80-Apr. 89) United States. National Technical Information Service, 1989

**Muon-catalyzed fusion** K. B. Winterbon, 1987      **Vorträge zur konstituierenden Sitzung der Klasse "Optimale Gestaltung der Umweltbedingungen - Mensch und Umwelt" am 8. April 1971**, 1972      Muon-catalyzed Fusion, Sanibel Island, FL 1988 Steven E. Jones, Johann Rafelski, Hendrik Jan Monkhorst, 1989      *Direct Conversion of Muon Catalyzed Fusion Energy* T. Tajima, S. Eliezer, R.M. Kulsrud, 1990      Muon Catalyzed Fusion at Very Low Temperature : a New Target System F. Mulhauser, Triumf, 1994      **Muon Catalyzed Fusion Under Compressive Conditions** Gregg Cripps, B. Goel, A. A. Harms, 1991      Muon Catalyzed Fusion, 1987      **MUON-CATALYZED FUSION THEORY:**

**INTRODUCTION AND REVIEW.** J.S. COHEN.,1989      **Muon Catalyzed Fusion in Deuterium at 3 K** Knowles, P. E, Triumf,1995      *Muon Sticking Factor in Muon Catalyzed Fusion and the Other Aspect of this Fusion Process* ,1986 The effect of resonance nuclear fusion reaction on the initial muon sticking factor is formulated The analysis shows that it is very sensitive to the resonance parameter and the factor calculated using the molecular wave function obtained by the Diffusion Monte Carlo method is 0.1001 for the presently evaluated resonance parameter The analysis of the multistep excitation effect on the reactivation factor shows that the effect is not so large and the analysis of muonic x ray spectra of  $\mu$   $^3\text{He}$  from  $\text{p} \mu \text{d}$  and  $\text{d} \mu \text{d}$  fusions is in good agreement with the values measured by Bossy et al      *Cold Nuclear Fusion and Muon-catalyzed Fusion (Jan 76 - Apr 89)* United States. National Technical Information Service,INSPEC (Information service),1989

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