



# EVIDENCE FOR THE OCCURRENCE OF *LENR* TYPE PROCESSES IN ALCHEMICAL TRANSMUTATIONS

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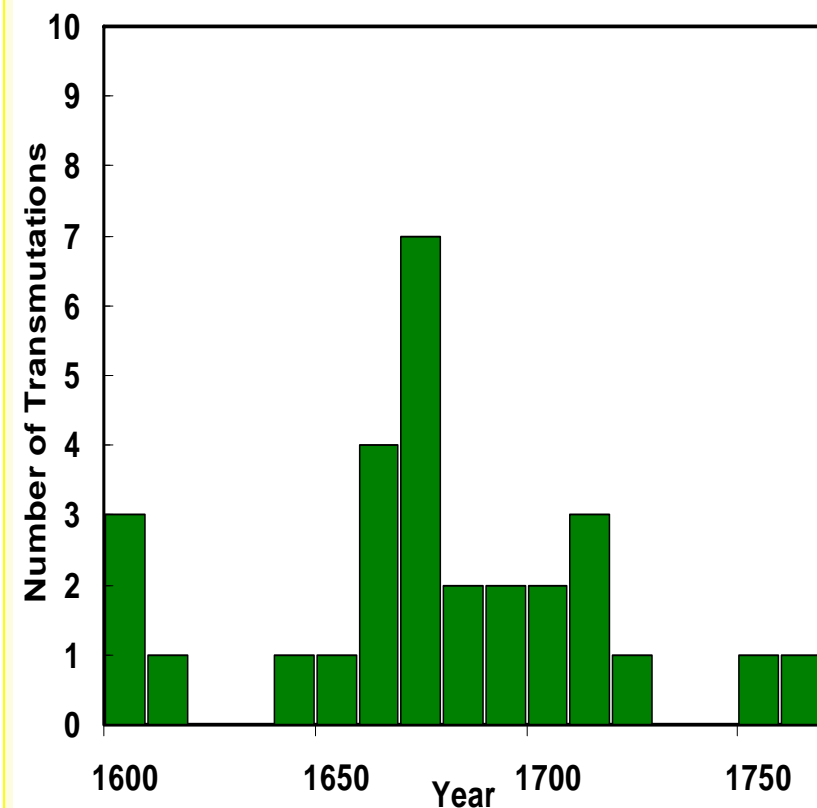
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# Background

## Definition of ALCHEMY

**Alchemy consists in the process of elaboration of the Philosopher's Stone**

**The Philosopher's Stone is a substance of unknown composition alleged to transmute base metals (lead, tin, ...) into gold or silver**



**A number of reports that describe alchemical transmutations can be found in alchemical literature from XVI to XVIII centuries**

# Objective



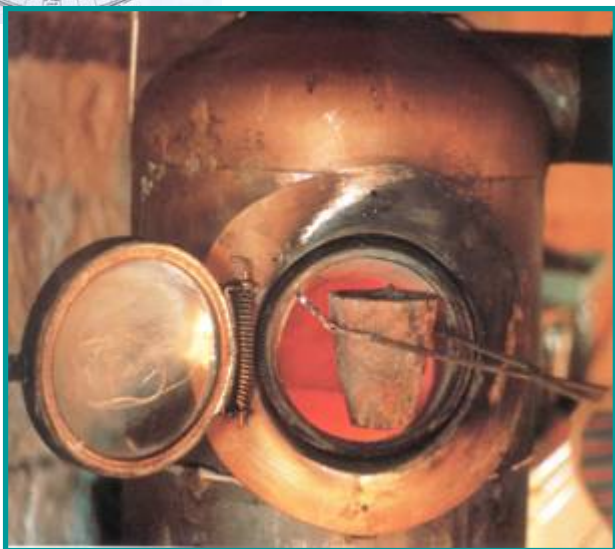
## OBJECTIVE

**Rational / Scientific examination of alchemical transmutations**

## APPROACH

- 1.- Identification of patterns in large sets of processes that contain sufficient quantitative information (weight of involved substances, time, ....)**
- 2.- Self-consistency: similarity of the patterns with analogous alchemical phenomena.**

# Transmutation Procedure



**Metal: Hg, Pb, Sn, Cu**

**Metal (weight =  $W_i$ )**

**+**

**Philosopher's Stone ( $W_{ps}$ )**

**Time, t**



**Metal: Au or Ag**

**$W_f$**

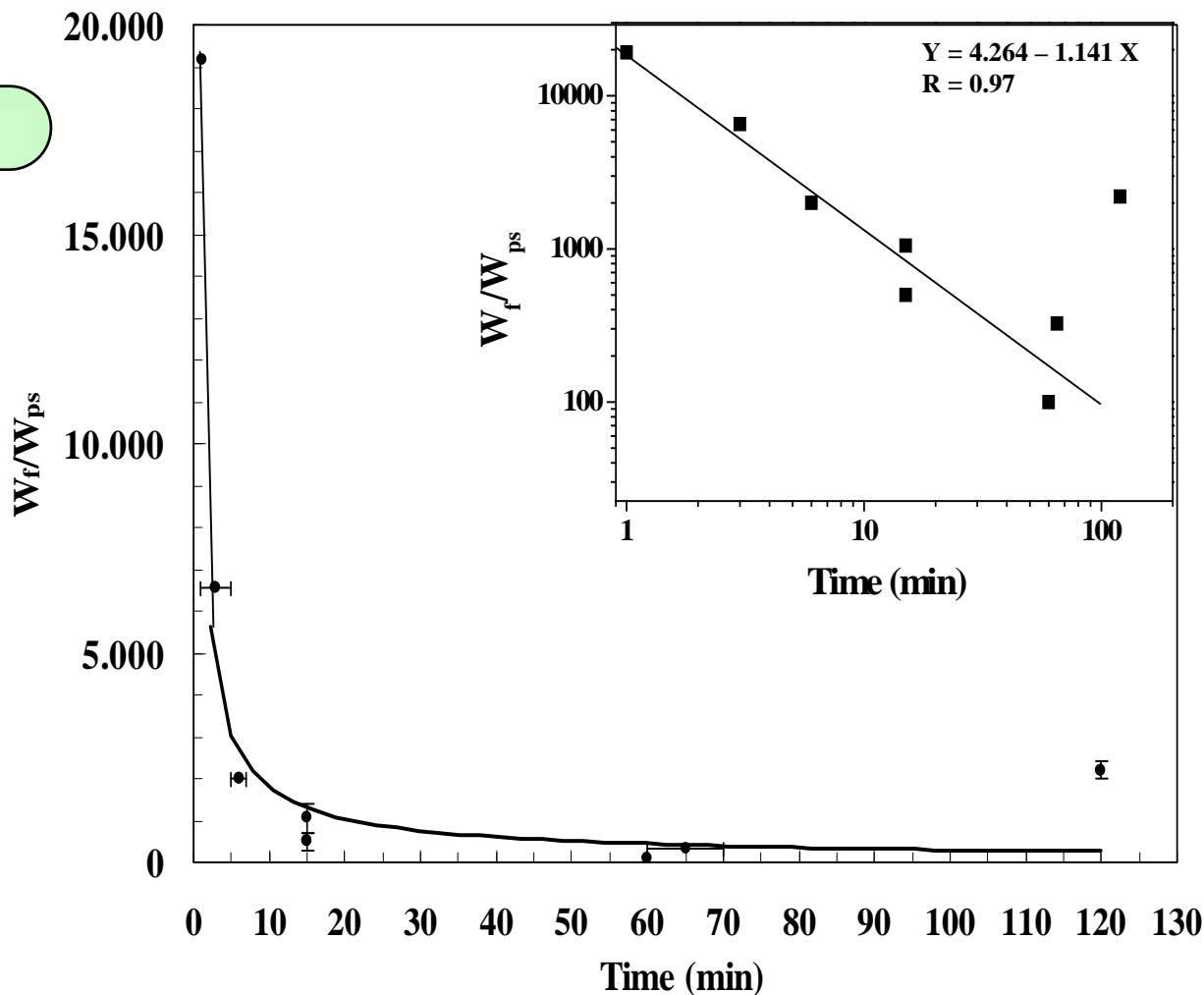
**Transmuting Power :  $W_f/W_{ps}$**

# Catalytic Approach

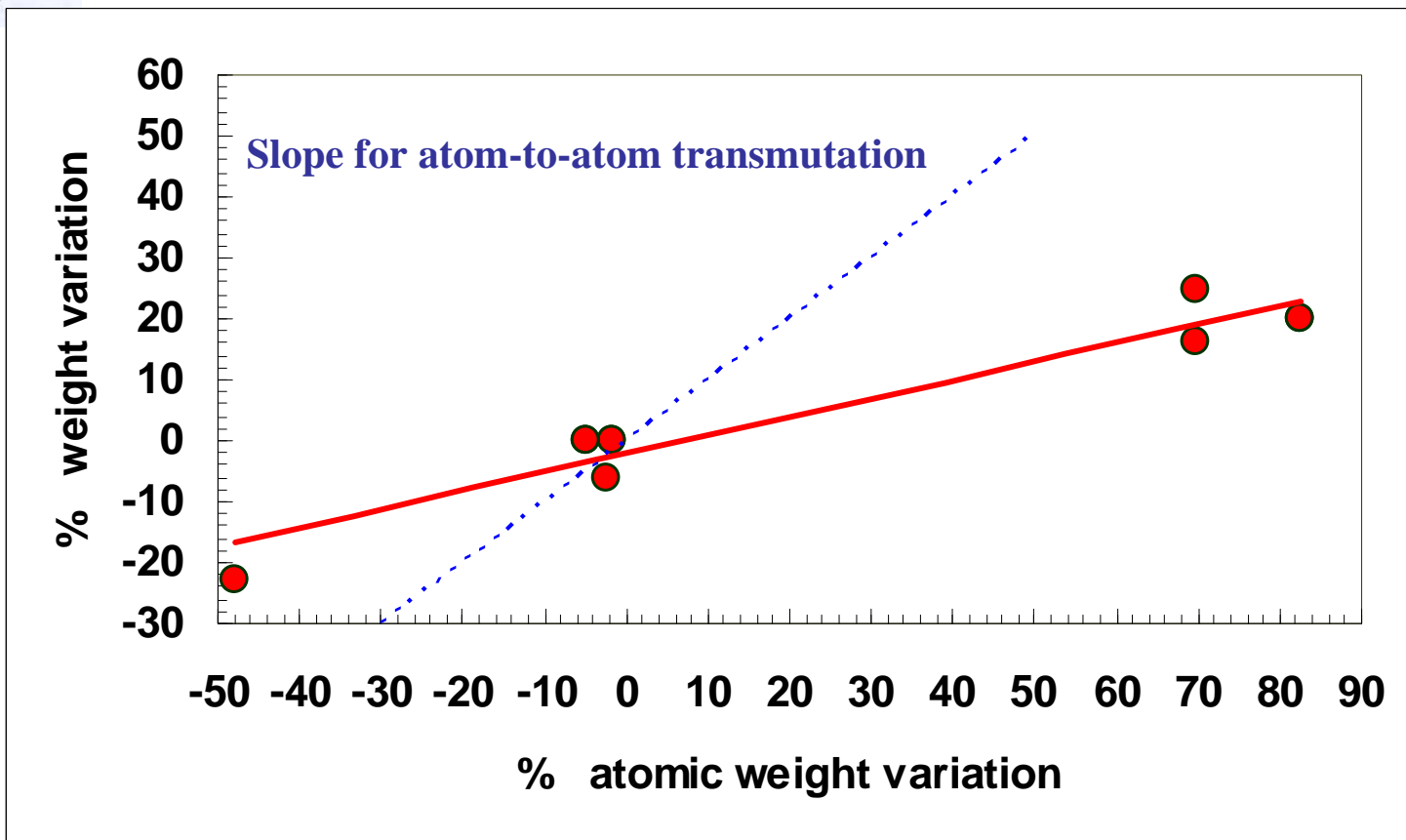


## Relationship between Transmuting Power and Time

The activity of the  
Philosopher's Stone  
follows a pattern  
similar to that of  
conventional  
catalysts



# Weight variations are observed in Transmutations



**Coupling of fusion / fission processes?**