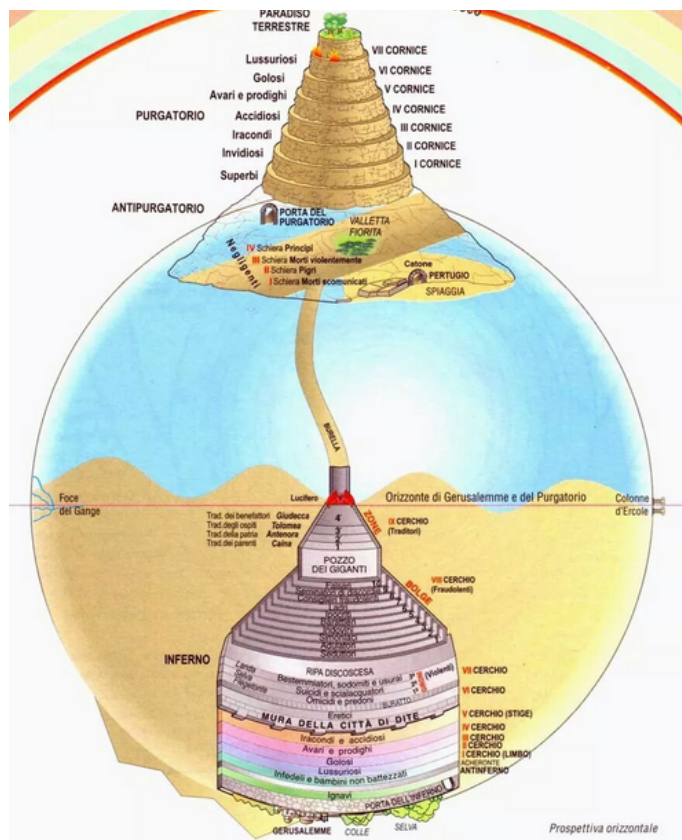


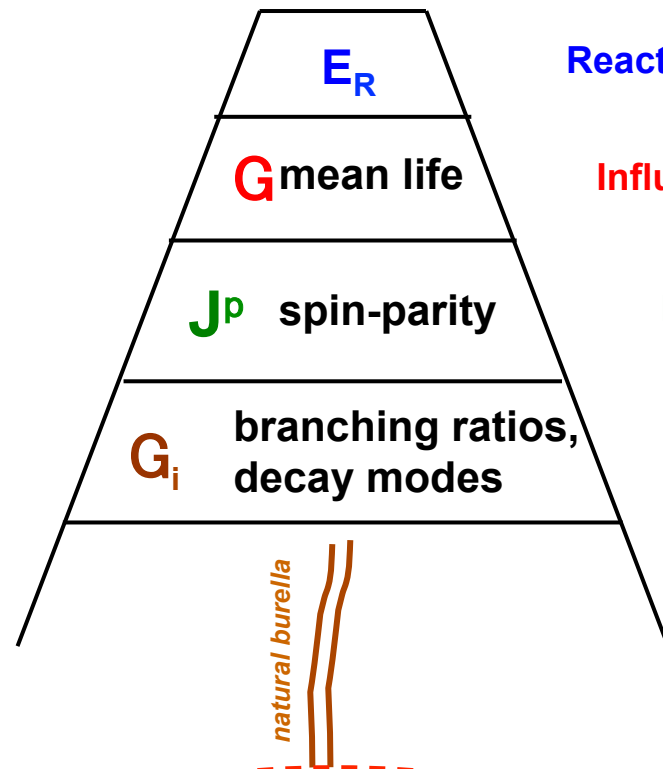
# Effect of the Medium in Nuclear Structure



Dante's world

**Experimental probes:**

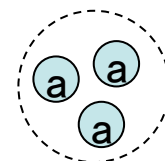
- position of  $E_R$  (*excellent resolution*) with *in vacuum* and *in medium* experiments
- angular correlations  $\rightarrow J^P$
- *mean life*



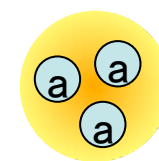
Reaction rate

Influence on  $r$  – process?

Interference of states?



vacuum



medium

The **HELL** of *nuclear reactions* !  
*direct, CN, heavy ion...*