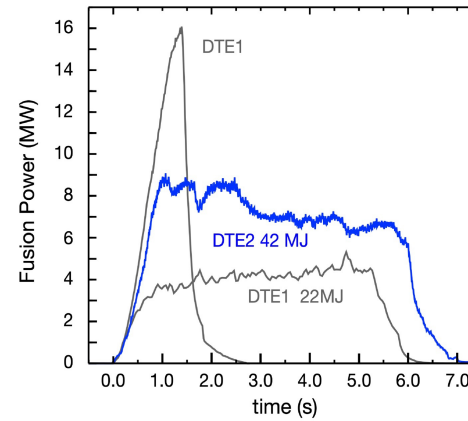
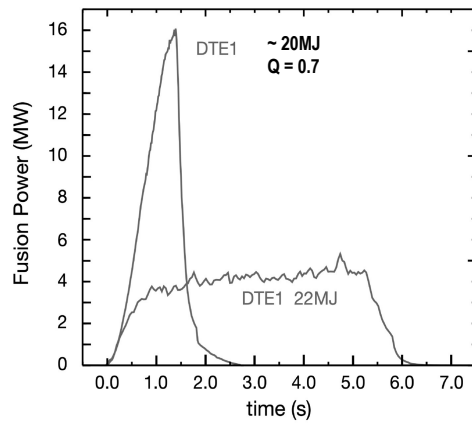
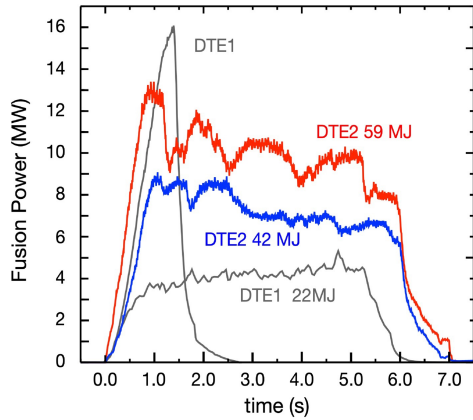


Recent record results obtained in the Joint European Torus (JET)
With important contributions by the Belgian team

Previous record (1997)

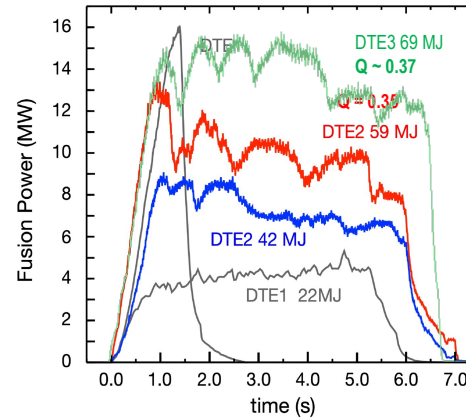


New record from 2021



Best result from 2021

THREE times more fusion energy generated!



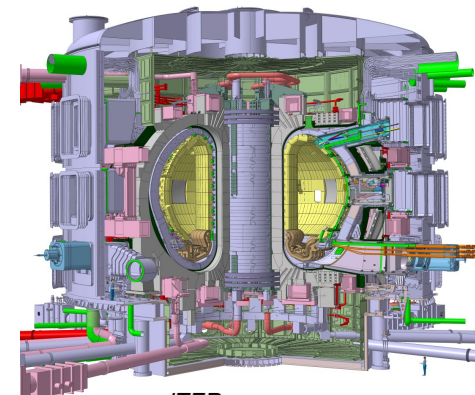
2 years later a new record

Energy to power approximately 250 PCs for 2 hours

With only 0.15mg of fuel !

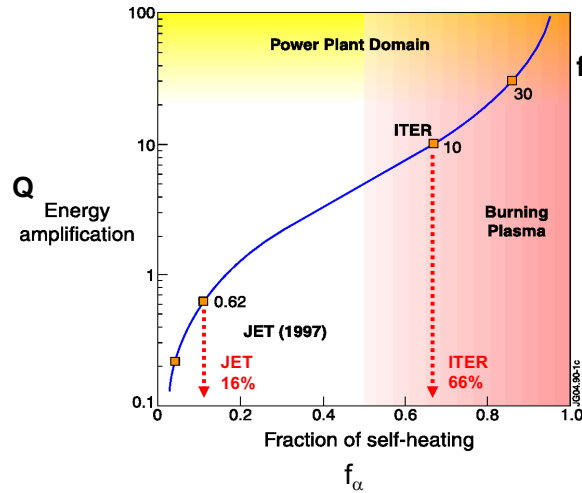
china eu india japan korea russia usa

*ITER = International Thermonuclear Experimental Reactor



ITER	
V_{plasma}	830 m ³
P_{fusion}	~500 MW 500s
t_{plasma}	~400 s

Study of the properties of fusion alpha particles (energy = 3.5MeV)



$$f_\alpha = \frac{\text{Self heating}}{\text{external heating}}$$

$$f_\alpha = \frac{Q}{Q+5}$$

JET
 $Q \leq 1 \rightarrow f_\alpha \leq 16\%$

ITER :
 $Q \geq 10 \rightarrow f_\alpha \geq 66\%$

