From neutron stars to Tokamaks: another way for solving the energy problem of the world.

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Abstract:

It is believed that about 100 million neutron stars inhabit our Galaxy. These are extremely compact and relativistic objects, but undergo violent and explosive events, such as X-ray bursts, in which approximately one million time more energy than the luminosity of the Sun is liberated in just a few seconds.

By understanding the mathematical physics of such events, can we solve the energy problem of the world for the next 20000 years? In this talk I will discuss the energy problem of the globe and outline the aims of the ITER-project; A 10-bilion dollar international project aimed at building up the ever largest thermonuclear energy reactor in Cadarache/Provence in south France, which is based on the magnetic confinement of extremely hot plasma in Tokamak like-devices.