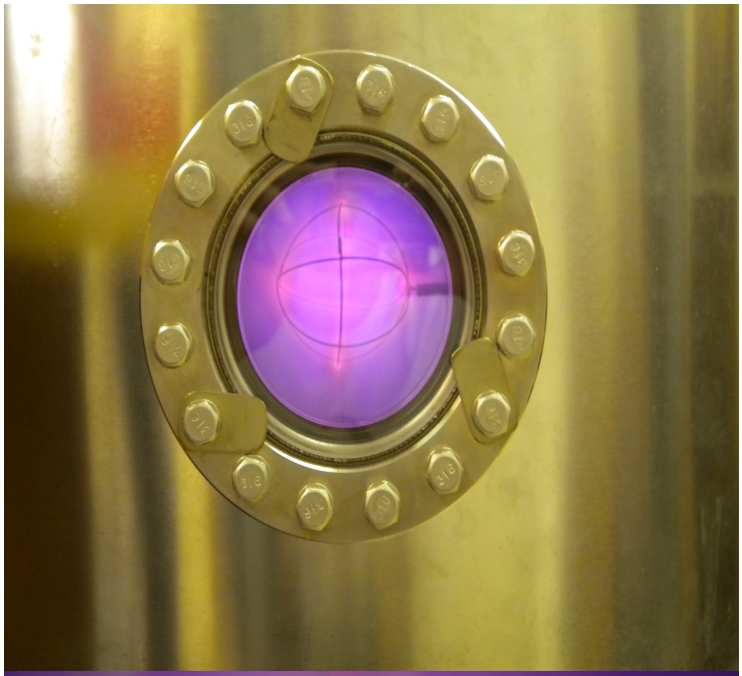
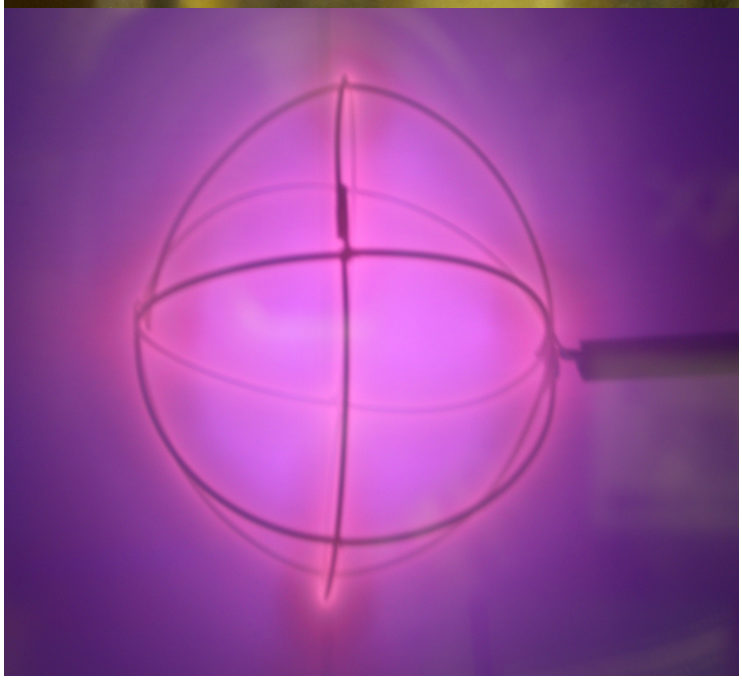


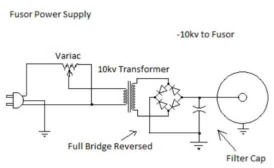


One of X-Labs coolest demos is the Fusor, nicknamed the "Baby Star" for it's similarities to the properties of a star. The X-Labs Fusor is a small IEC (Internal Electrostatic Confinement) Nuclear Fusion Reactor. It sounds scary, but our Fusor is not dangerous at all. It consists of three major parts: the high vacuum chamber, the power supply, and the high vacuum pump. The Fusor works by accelerating positively charged particles towards a negatively charged grid in the center of the vacuum chamber. Many of these positive particles miss the negative grid and collide in the center of the chamber. These collisions are a simple and safe demonstration of Fusion. Unfortunately Fusion is not yet the solution to a limitless power source, because science has not yet created sustained Fusion. This means that we can't get more power out of a fusion system than we put in. Overall the X-Labs Fusor is an awesome demo that demonstrates science at ti's best. Below are more details about the X-Labs Fusor.

The main parts of the Fusor are the high vacuum chamber, the power supply, and the high vacuum pump.

High Vacuum Chamber:

The Vacuum Chamber for the Fusor is used to create a high vacuum (very little air) for the fusion reaction to take place. It is very big and made of thick brushed stainless steal. It has a valve and port on top for connection to the high vacuum pump. It also has a high voltage feed through that connects the internal grid to the power supply.



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Much more information about IEC Fusion can be found at the links below.

http://www.fusor.net

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