

Toroidal magnetic field electrical circuit

Circuit for generation of a toroidal magnetic field B_t consisting of a capacitor bank (Capacity of the Toroidal

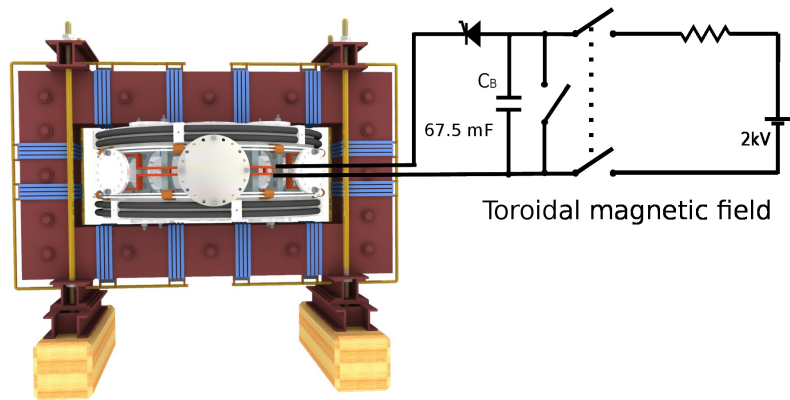


Figure 1: Toroidal magnetic field circuit schematically

magnetic field capacitor $C_{Bt} = 0.0675 \text{ F}$) charged up to $U_{C_B} = 2 \text{ kV}$, which is triggered by PC controlled thyristor into a set of 28 magnetic field coils to generate a toroidal magnetic field up to Maximum toroidal magnetic field $B_t^{max} < 0.5 \text{ T}$. The current can be driven in both direction, thus the resulted field can be oriented in both clockwise and anticlockwise directions.

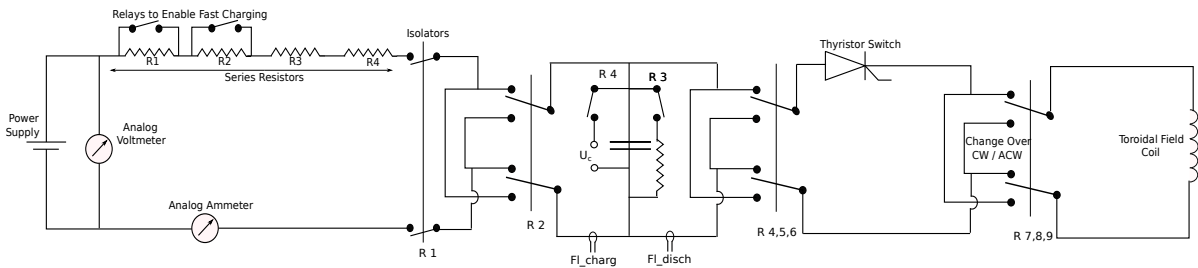


Figure 2: Scheme