

Musical tesla coil

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The Tesla coil, as an invention, is an important part of the history of engineering and science, which has had a great impact on the modern world. Its principles are used in radio technology, wireless energy transmission and high-frequency researches. While working on the bachelor's project, we studied the various principles and features of the Tesla coil, their technical and practical applications. We created a famous and spectacular musical model of the Tesla coil, which we called "napertskala". The our coil can generate plasma at the corresponding frequency of any audio signal. Plasma ionizes and heats the air around it, which is accompanied by impressive visual and sound effects. This project is interesting not only for engineers, but also for a wide audience, since it combines engineering, science and art.