

Title: Electrostatic generators

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Abstract: This bachelor thesis named Electrostatic generators is divided into four main parts. The first part deals with the role of experiment in physics teaching on primary and high schools and brings some important arguments why the experiment plays irreplaceable role in teaching physics. Second part deals with the explanation of principles of operation of some particular types of real electrostatic generators. Third part describes the concept of construction, its' improvements and experience with building of the Bonetti electrostatic machine, which can become a desirable instrument in schools thanks to its' properties and affordable cost. There are also results of measurements of some parameters of available generators mentioned. Fourth part consists of gathered school demonstrative experiments from electrostatics, which are chosen to match teachers' needs by their simplicity of performing and their applicability to demonstration of electrostatics for students.

Keywords: electrostatics, generator, experiment