Title: Chapters from nuclear fusion for high school education

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Abstract: Text of this thesis is intended for anyone interested in nuclear fusion, although it is especially aimed for education of physics in high schools. The thesis sums up the basic principles of fusion reactions in space and explains it’s importance for life on Earth. Additionally, it points out some of the most crucial problems of present world energetics and introduces controlled thermonuclear fusion as a possible solution. The thesis clarifies some of the most important aspects of controlled fusion research, especially the branch of magnetic confinement reactors, and provides the most significant advantages and disadvantages of this potential power source. It also offers variety of illustrative pictures.

Keywords: Nuclear fusion, energetics, magnetic confinement, tokamak