

My name is Fioralba Ajazi, I study mathematics at the University of Udine, and I work as a student with the linear mirror project of Hans Grassmann.

As a citizen I like the linear mirror, because it is able to substitute oil, gas and nuclear power with solar energy. As a student I like it, because the linear mirror seems so simple, but when you think more about it, you will find that this simplicity is highly fascinating, and full of wonderful mathematical challenges, which range from applied mathematics to the foundations of science. Geometry and analysis studied at the University come alive in the linear mirror, where simple concepts like "matrix, " "vector ", become useful tools to face dynamic, practical and challenging situations.

As a student and a citizen I like that the linear mirror is a bridge between pure science and society. I will explain this in more detail:

The linear mirror is a system of simple mirrors; they concentrate the sun light onto a common spot, or focal area. The concentrated energy, which you find at this common spot can be used in any way you want: at present the linear mirror is used heat water up to high temperatures, but in future one will also be able to produce photovoltaic energy or hot steam for steam turbines – there is hardly any energy consuming application which cannot be supported by a linear mirror system.

It is also true that heat energy can be stored rather easily, many procedures for storing heat energy do already exist and new and improved procedures surely will be developed in the future.

At the same time, the linear mirror is very simple and therefore relatively cheap. For instance, the whole system is driven by only two very small electrical motors. And since the linear mirror is so simple and cheap, it can provide solar energy in an economical way also in a northern climate, like in cold Germany. Other, more complex and non-linear systems are made for the African desert; the linear mirror is the only device which was developed for cold Germany.

When you now put these three points together: (1) simple and cheap, (2) you can store the energy, (3) many applications are possible - you find that this technology can substitute oil and gas and also nuclear power.

And best of all: the linear mirror is not a nice idea, it is not a university experiment, it is not a prototype, but rather it is an industrial product, which everybody can buy. You can start to substitute oil or uranium with it from today onwards. You just need 5 by 3 meters of ground to position the mirror.

I am not the only student working with the linear mirror project. Students also have developed the electronics that command the system; they have written the software running in its microprocessors and designed the system of levers and mirrors. In the linear mirror project, teaching and research cannot be distinguished, the linear mirror shows that Humboldt was right.

The linear mirror project also shows that fundamental research and application should not be separated, science and society should not be separated. In his books, Hans Grassmann postulates that physics cannot exist without a close contact with general culture, and if this contact does exist, good physics progress will automatically occur. I have been told this, since I cannot read his books as I do not speak German. But working with Hans Grassmann I know that he is surely right on this point. I see it every day. Science must be a natural part of society and general culture.

Therefore, if we want to really substitute nuclear power and at the same time oil, gas and coal, we must bring physics back in the midst of society. It must again become something like literature, art, theatre. Done by many, understood by everybody. Hans Grassmann shows us that this is possible. But he never has shown and he never has claimed, that he can do all of this alone, together with his students. Yes We know, that this can be done. But only together with society, only with your help and support and participation.

I thank you very much for allowing me to come to Berlin to speak to you. I have already begun learning German: Nuklearkraft ist unnoetig. Dankeschoen.