



1st Workshop on Linear Mirror Systems and Integrations

Can solar energy substitute fossil energy?

The *International Workshop on Linear Mirror Systems and Integrations* invites you to participate at a common effort to integrate the new concept of the linear mirror into the broader current solar energy scenario. The workshop includes different fields such as Physics, Material Engineering, Architecture and Economics. Besides the talks and discussions we will have brain storming for future cooperation and new or existing grant proposals. Feel free to announce a contribution of your own and additional proposals to the workshop.

Time: May 19th and 20th 2012

Place: ICTP: The Abdus Salam International Center for Theoretical Physics
Strada Costiera, 11, I - 34151 Trieste Italy

Organisation: Hans Grassmann, Isomorph srl and University Udine, Italy

Barbara Sandow, Free University Berlin, Germany

Marina Cobal (local), University Udine, Italy and Cern, Switz

Subjects of the workshop are:

- Solar energy overview
- Low and high temperature solar thermal
- CPV

- Linear mirror
- Solar wall
- Economics

- Components: mirrors, collector, electronics

- Integrations: thermal heating, solar cooling, process heat

Tentative Schedule

Saturday morning: Present and Future Situation of Concentrated Solar Energy

Introduction and Overview: legal and political

Introduction and Overview: scientific

Mirror systems in Africa

Economics and Environment

Saturday afternoon: Linear Mirror Systems

Studies on Linear Mirrors

The Solar Wall

On the mathematical Structure of Linear Mirrors

Architectonic/Design considerations: public acceptance

Sunday morning: Concentrated PV in combination with the Linear Mirror systems

Where are we and why?

First measurements with Linear Mirrors

“bringing together ideas” our goal here is to collect suggestions from all of the experts of concentrating PV, on how to proceed in order to arrive at a low cost PV module for the linear mirror. This collecting ideas should be done in the weeks before the workshop.

Sunday Morning/afternoon: round table, preparation of combined effort and funding requests.