

## **Detection of greenhouse gases: Novel application of multi-mirror autodyne lidar**

Reuben Shuker<sup>1</sup>, Gennady A. Koganov<sup>1</sup>, Evgueni P. Gordov<sup>2</sup>

<sup>1</sup>Ben Gurion University of the Negev, Israel

<sup>2</sup>Siberian Center for Environmental Research and Training, Tomsk, Russia

E-mail: [shuker@bgu.ac.il](mailto:shuker@bgu.ac.il), [quant@bgu.ac.il](mailto:quant@bgu.ac.il), [gordov@scert.ru](mailto:gordov@scert.ru)

Overview of autodyne lidar will be presented. Novel application of multiple external mirrors technique will be discussed. The description of this scheme will be based on the analytical approach presented in our previous work (Appl. Opt. 41, 7087 (2002)). The usage of multiple target mirrors allows the detection and location of the concentration of species in question between any pair of neighboring mirrors.

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