***Under developing***

**LIRIC-2 – Algorithm for retrieving aerosol optical and microphysical parameters from data of combined AERONET&Lidar (ground-based/CALIOP) measurements: general information (13/09/2019)**

***Contact persons:***

Anatoli Chaikovsky, chaikov@dragon.bas-net.by

Vladislau Peshcharankou, vlad.pescherenkov@gmail.com

The Optical Remote Sensing Centre of the B.I. Stepanov Institute of Physics, National Academy of Sciences of Belarus" (ORSC-IPNASB) Minsk, Belarus is developing software package LIRIC-2 to retrieve aerosol optical and microphysical parameters from data of combined AERONET&Lidar (ground-based/CALIOP) measurements

The idea of combined Lidar&Radiometer Sounding (LRS) technique was defined [1]. The use of CALIOP lidar data in LRS technique was proposed in [2].

The prototype of developing software is program package LIRIC [3].

LIRIC-2 includes two sub-packages: LIRIC-2(CALIOP) and LIRIC-2(ground) for processing data of CALIOP and ground-based data, respectively.

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2. Chaikovsky, A., Chaikovskaya, L., Denishchik-Nelubina, N., Fedarenka, A., Oshchepkov, S., “Lidar&radiometer inversion code (LIRIC) for synergetic processing of EARLINET, AERONET and CALIPSO lidar data”, EDJ Web of Conferences 176, 08007 (2018).
3. Chaikovsky, A., O. Dubovik, B. Holben, А. Bril, P. Goloub, D. Tanré, G. Pappalardo, U. Wandinger, L. Chaikovskaya, S. Denisov, Y. Grudo, A. Lopatin, Y. Karol1, T. Lapyonok, V. Amiridis, A. Ansmann, A. Apituley, L. Allados-Arboledas, I. Binietoglou, A. Boselli, G. D'Amico, V. Freudenthaler, D. Giles, M. J. Granados-Muñoz, P. Kokkalis, D. Nicolae, S. Oshchepkov, A. Papayannis, M. R. Perrone, A. Pietruczuk, F. Rocadenbosch, M. Sicard, I Slutsker, C. Talianu, F. De Tomasi, A. Tsekeri, J. Wagner, X. Wang, “Lidar-Radiometer Inversion Code (LIRIC) for the retrieval of vertical aerosol properties from combined lidar/radiometer data: development and distribution in EARLINET,” Atmos. Meas. Tech., No. 9, 1181–1205, (2016).