



## DATA QUALITY ASSURANCE AND CHARACTERIZATION OF BELGRADE RAMAN LIDAR STATION

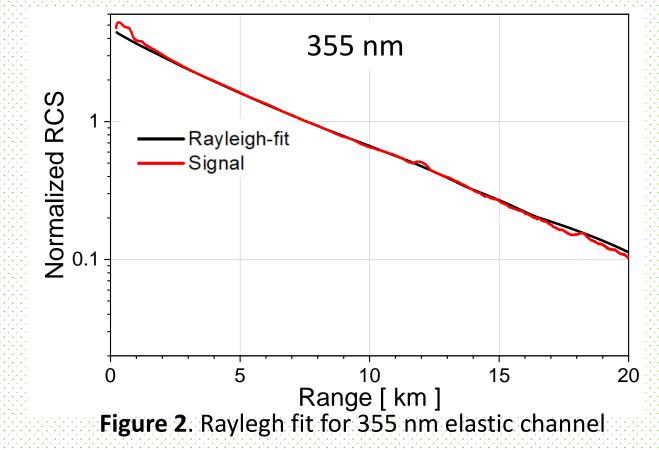
## Zoran R. Mijić<sup>1\*</sup> Maja Kuzmanoski<sup>1</sup> and Luka Ilić<sup>1,2</sup>

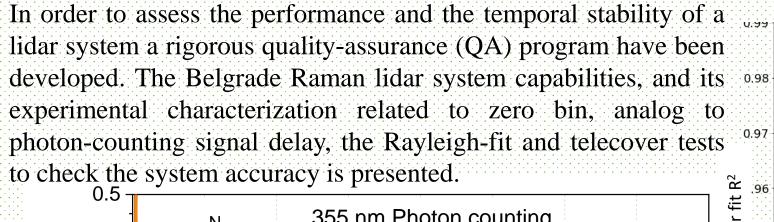
<sup>1,2</sup>Institute of Physics Belgrade, Pregrevica 118, 11080 Belgrade, Serbia <sup>2</sup>now at Barcelona Supercomputing Center, Plaça Eusebi Güell, 1-3, 08034 Barcelona, Spain

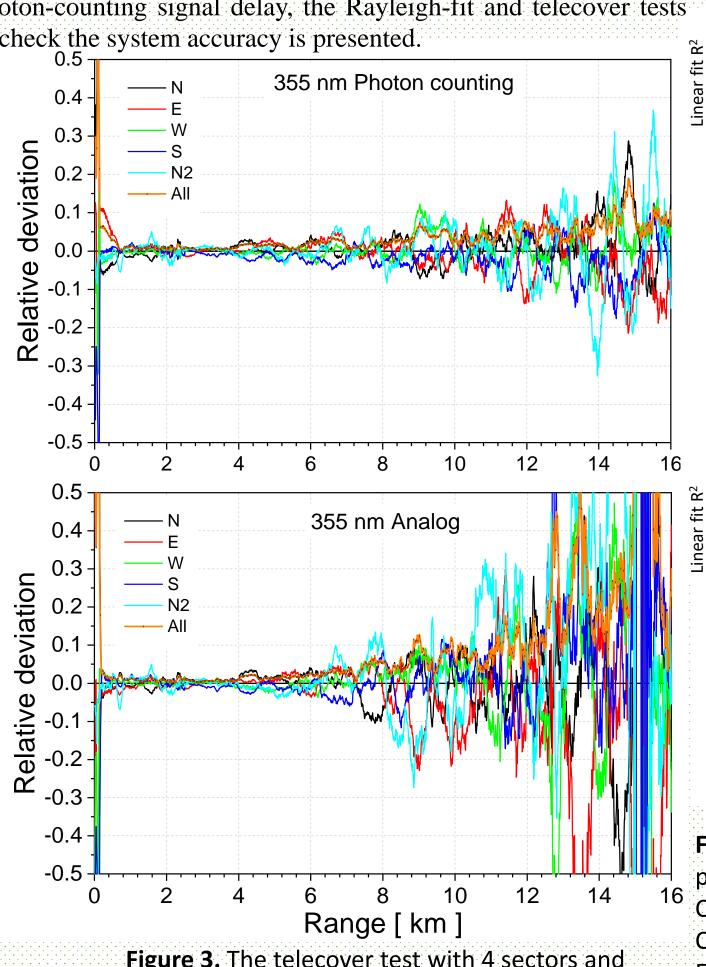
As an EARLINET (the European Aerosol Research LIdar Network) joining lidar station, Belgrade Raman lidar system has provided aerosol profiling data for potential climatological studies.



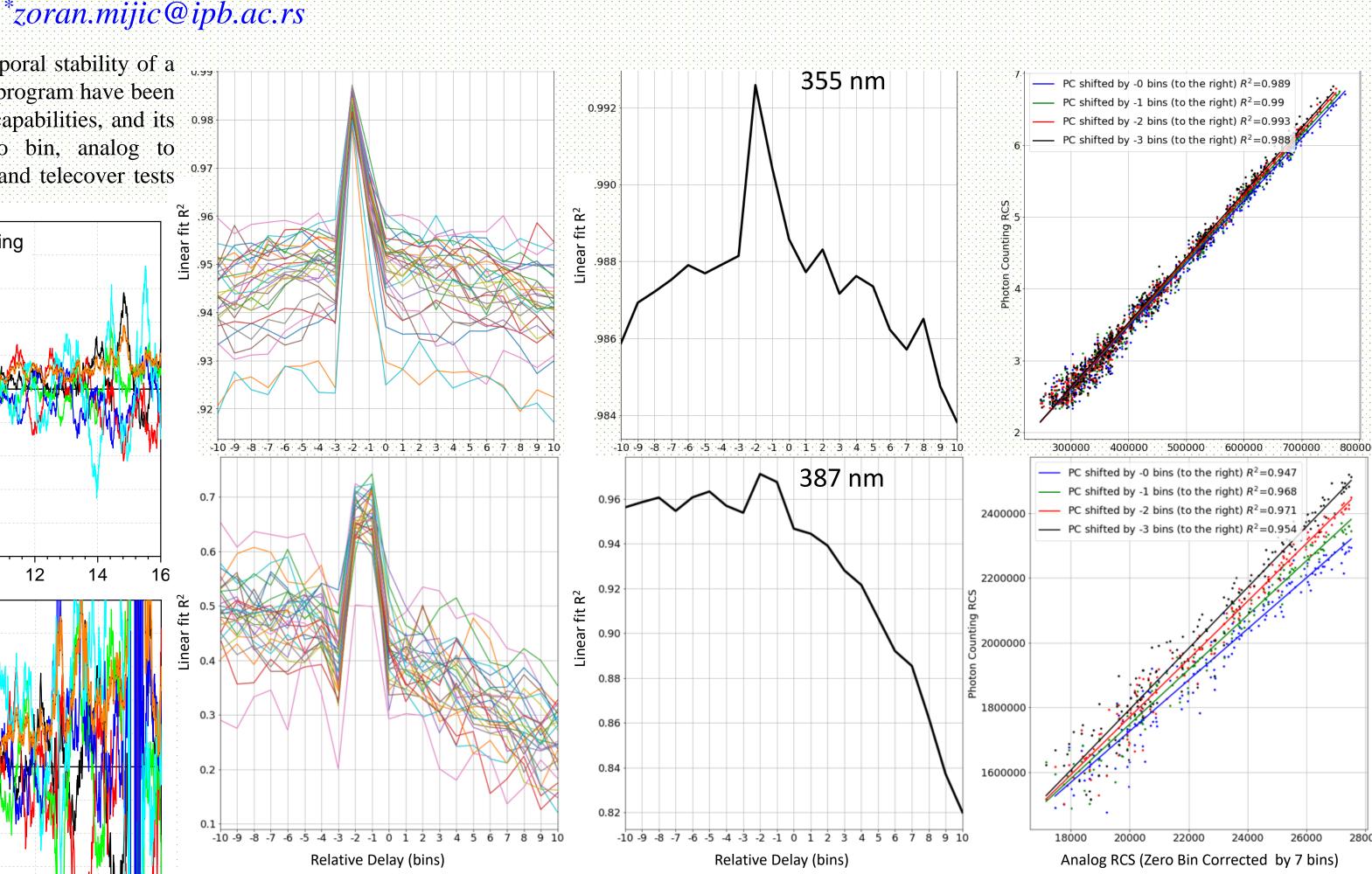
Figure 1. EARLINET Belgrade joining lidar station







**Figure 3.** The telecover test with 4 sectors and corresponding 355 nm signals



**Figure 4.** Analysis of the relative delay between zero-bin-corrected Analog RCS and the PC RCS. Measurements of 30 1-minute profiles with 1200 shots each were used. A linear regression between AN and PC data was performed in the gluing region. Correlation coefficient as a function of relative delay between analog and photon counting signals (left). Correlation coefficient as a function of relative delay between analog and photon counting mean signals (center). Fit between the PC RCS and Analog RCS channels (right).