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Atmospheric Measurement Techniques Discussions

Interactive comment on "Performance evaluation of an all-fiber image-reject homodyne coherent Doppler wind lidar" *by* C. F. Abari et al.

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It is common knowledge that homodyne cw lidar systems suffer from spurious reflections (e.g. from the telescope), not white noise or even the autodyne effect at near zero velocities. This paper describes an approach to reduce those limitations with inphase and quadrature estimation technique. The detailed statistical analysis of two datasets in comparison with a sonic anemometer is well presented. Was the short range associated with a small sensitive volume only chosen for comparison reason with the sonic anemometer? If not some words should be added what is the advantage of an extreme short range lidar compared to a cheaper sonic anemometer.

Interactive comment on Atmos. Meas. Tech. Discuss., 8, 3729, 2015.

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