**Atmospheric
Measurement
Techniques
Discussions**

Interactive comment on "Improved Micro Rain Radar snow measurements using Doppler spectra post-processing" *by* M. Maahn and P. Kollias

Anonymous Referee #1

Received and published: 20 August 2012

Review AMT-2012-117

Improved Micro Rain Radar snow measurements using Doppler spectra post-processing. M. Maahn and P Kollias.

General comments The paper presents a new methodology for improved the retrieval of precipitation observed by the Micro Rain Radar system, particularly for falling snow. The paper is presented in a logical and understandable way, supported by adequate tables and figures. In addition, the authors have made the programming code for the technique available on-line, thus enabling users to actively implement the outlined methodology. As such the paper provides a substantial contribution to furthering the utilisation of information from such instrumentation.

Specific comments None

Technical corrections A number of corrections have been identified below: General – use of dBz rather than dBZ? P4772, L13: replace 'at' with 'over' P4472, L26/P4473, L1: 'also extends' rather than 'extends also' P4473, L8: remove 'a' before 'better' P4474, L7: 'month' rather than 'months' P4474, L12-14: repetition of the MRR description (check elsewhere also – e.g. bottom P4777). P4475, L8: remove hyphen between 's' and 'data' (i.e. '10 s data') P4475, L10: replace 'ratio' by 'difference' or 'bias' (also in associated Figure 2). P4780, L8: replace 'relation' with 'relationship' P4782, L1: replace 'normal' with 'normalised' P4782, L12: replace 'would be' with 'is' P4783, L1: consider replacing 'neighbouring' with 'adjacent' P4783, L1: replace 'bins of' with 'bins to' P4783, L6: replace 'had to be' with 'was' P4783, L15: replace '"halfs"' with 'halves' P4783, L22: replace 'from' with 'of' P4785, L11: replace 'extend' with extent' P4785, L14: replace 'of all peaks the smallest 10%' with ' the smallest 10% of all peaks' P4789, L11: replace ' exemplary the' with 'the exemplary' P4790, L2: replace 'detect also' with 'also detect' P4793, L11: replace 'no bias' with 'unbiased' Figure 2: suggest that it might be worth adding a sentence in the caption regarding the regular biases in the MRR-MIRA35 plot.

Interactive comment on Atmos. Meas. Tech. Discuss., 5, 4771, 2012.