

Interactive comment on “The mirror mode: A superconducting space plasma analogue” by Rudolf A. Treumann and Wolfgang Baumjohann

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We cordially thank this reviewer for his very constructive comments and suggestions. We will, of course, take them into account in any resubmission.

In addition we will, to the information of this (as well as the other) reviewer(s) include a reference to a possible "turbulent" correlation length which we had not considered yet, because no treatable expression of it is known to us. Possibly a turbulent correlation length is more appropriate and also more important than the other two (Debye radius or gyroradius). The magnetosheath (where mirror modes are permanently observed behind the shock) is known to contain a highly turbulent plasma.

The observation of a particular "saturation length scale" of mirror modes should in this

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case put an upper limit on the turbulent correlation length. This might be of general importance in mhd turbulence theory.

Once more many thanks to this reviewer for his encouraging comments.

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