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**Manuscript IJMF\_2017\_854**

**‘Air cavities at the inner cylinder of turbulent Taylor-Couette flow’,**

by Verschoof, Bakhuis, Bullee, Huisman, Sun, Lohse

March 22, 2018

Dear Editor,

Thank you very much for sending us the four referee reports on our above paper. We are glad that all four referees appreciate our work and recommend publication in revised form. We are also very thankful for their good and extensive comments and suggestions. We carefully considered these suggestions and revised our manuscript accordingly. Please find attached a detailed reply to their reports, in which we also explain the corresponding changes we made in the manuscript.

We hope that based on the referees' reports and our responses and changes, our manuscript can now be accepted without the need for a second refereeing round.

Yours sincerely,

Ruben A. Verschoof  
Dennis Bakhuis  
Pim A. Bullee  
Sander G. Huisman  
Chao Sun  
Detlef Lohse