

Interactive comment on “Wind inflow observation from load harmonics: wind tunnel validation of the rotationally symmetric formulation” by Marta Bertelè et al.

Anonymous Referee #2

Received and published: 19 October 2018

A useful paper, a good improvement and important tidying-up of the method as previously presented. Small comments:

Equation (7): there should be some explanation of where this comes from, otherwise it comes out of the blue.

End of Section 2.3: "since the model is linear": it would be useful if, somewhere in the paper, there was at least a comment on the appropriateness of a linear model for this, or some justification for assuming that non-linearities are not important here.

Section 3.1: "The model includes geometrically-exact blades", but does it include blade flexibility? Blade dynamic response and unsteady aerodynamic effects could poten-

C1

tially cause problems for the method. Could, or should, the model be extended to allow for this, or can it be shown to be unimportant, even for the modern very long and flexible blades? Wind tunnel tests are useful up to a point, but are there any plans to test this on a large wind turbine?

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2018-61>, 2018.