WIND ENERGY SCIENCE DISCUSSIONS

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Interactive comment on "Accurate loads and velocities on low solidity wind turbines using an improved Blade Element Momentum model" *by* Yassine Ouakki and Abdelaziz Arbaoui

Anonymous Referee #2

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Dear authors,

In my opinion, there are several issues with this article:

- The parameter ξ is introduced wrongly just before Equation (11)

- There is a bracket too much in the denominator of Equation (14)

- In Equation (15) the term $\bar{h}$ in the square root in the denominator should be squared

- Any explanation why the empirical parameters a_0 and b_0 are both chosen as 1 for

this particular rotor (just after Equation (15)) is missing. Without any guidance on how to choose these parameters it is difficult to use the correction proposed in the paper.

- Equation (33) is not derived in the article and it is unclear where it comes from.

I leave it to the editor to decide how to proceed with the article and will provide a more detailed review if desired.