

June 9, 2017

Dear the reviewer

We are greatly appreciated the reviewer for spending his valuable time to read through the manuscript and to give us useful comments and suggestions on our manuscript "Off-Axis Driven Current Effects on ETB and ITB Formations based on Bifurcation Concept". According to your comments and suggestions, we have improved the manuscript. I hope that you will be satisfied with the changes we made.

Best Regards,

Jintana Pakdeewanich

Title: Off-Axis Driven Current Effects on ETB and ITB Formations based on Bifurcation Concept

Author: J. Pakdeewanich, T. Onjun and B. Chatthong

The referee's comments appear in the black color, the author's response appears in red color.

1. How does the bootstrap current suppress instability?

The bootstrap current enhances the total plasma current in toroidal direction which also affects plasma toroidal velocity. It was shown previously that these can suppress instability and cause transport barrier formation. See, for example in [1]

Reference

[1] Chatthong B Simulations of ITER in the presence of ITB using the NTV intrinsic toroidal rotation model.