

Abstract Submitted  
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**Effect of RF Waves on Ion Temperature Gradient Modes**<sup>1</sup> S SEN,  
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K IMADERA, Y KISHIMOTO, Kyoto University, Japan — The ion-temperature-  
driven modes are studied in the presence of radio frequency waves by the use of  
the Gyro-Kinetic simulation Code and ASTRA Code. It is shown that the radio  
frequency waves through the ponderomotive force can stabilize the ion-temperature-  
gradient instabilities and contrary to the usual belief no radio frequency wave-  
induced flow generation hypothesis is required. This might be a major way to  
create a transport barrier in the fusion energy generation.

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