

Reply to referee Paul Bernhardt on the manuscript "Deterministic chaos in modulated multi-cell drifts of localized lower hybrid oscillations excited by high frequency waves in the ionosphere"

Thank you very much for the constructive comments. An acknowledgement is added at the end of the manuscript. All suggested changes have been made, except one: The symbol for the gyro frequency is kept as f_e (this notation is not uncommon in plasma physics). I usually avoid the suggested subscript "c" as it refers to "cyclotron" frequency. "Cyclotron" in physics is historically used for a device that accelerates particles by an electric field. However, no electric field is involved in the present case of the gyro motion of charges in a static magnetic field. Therefore, to avoid confusion on the physics I prefer not to use "cyclotron", but instead keep "gyro".