

We thank the editor for their time reviewing our manuscript.

In this document, text from the editors comments is in *blue italics*, and our response is in plain black text. In the redlined version of the manuscript, our changes are in bold red font.

*The mechanism of the cyclotron maser by Wu and Lee should be made more prominent in the introduction section of the paper. Now it is barely mentioned on line 48 and not in relation to the theory. This should be stated at the very beginning of the Introduction section.*

Thank you for this comment. We agree that the cyclotron maser instability is a key theory in this field and must be emphasised. We have included some text in the first paragraph to note the key points of the theory: *“AKR is generated by the Electron-Cyclotron Maser Instability (ECMI), a seminal theory developed by Wu and Lee (1979). While describing the generation mechanism for AKR emission, this theory also stipulates that AKR emission frequency is inversely proportional to altitude, and is beamed from the source region at near-right angles.”* Please see line 15.