

field would not be justified in this case, because the coupling occurs at $X \approx 1$, nor would the neglect of collisions be valid.

The same coupling as that invoked in the generation of the Z-trace has been suggested in connection with solar radio emission by Ginzburg and Zhelezniakov (1959) and in a modified form by Mollwo (1969). This involves coupling, at the level where $f \approx f_p$, of waves in the extraordinary mode into o-mode waves which escape: the extraordinary mode waves could be generated as electron plasma waves which propagate into a region of higher f_p so that the refractive index decreases. Again one needs to assume oblique incidence to treat this coupling in the general case.

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