Space Studies with Incoherent and Coherent Scatter Radars Located at the Magnetic Equator

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During this seminar we present an overview of the space activities conducted at and around the Jicamarca Radio Observatory (JRO) located under the magnetic equator. Most of the studies are conducted with incoherent and coherent scatter radars, depending on the phenomena or variable we are after. We will cover the importance of geometry with respect to the Earth magnetic field (normal modes of progagation, importance of electron and ion collisions, …) on defining the radar techniques used at JRO and the type of phenomena we can study. We will include results from our latest studies of meteoroids entering the Earth based on meteor-head observations performed at JRO using interferometric techniques. At the end of the seminar, we expect that some of the participants get interested on JRO activities, either by doing data analysis or by visiting and performing actual radar experiments. More information about JRO can be found at: http://jro.igp.gob.pe/

