

Seminario

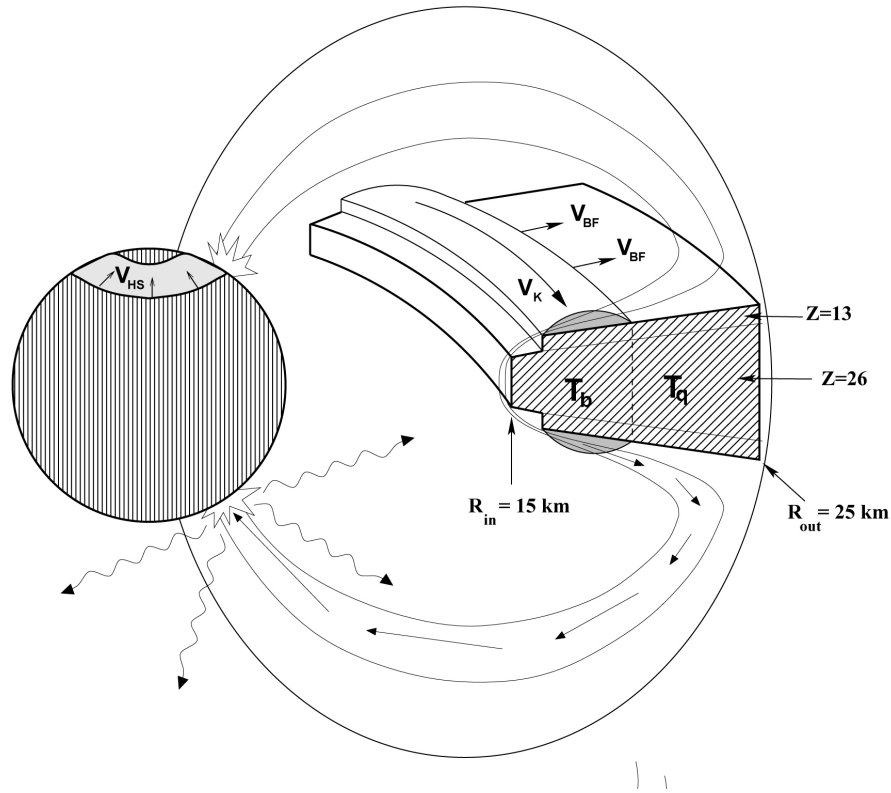
Miércoles, 22 de Mayo de 2013

11:00 hrs, Auditorio IA-Ensenada

Nico Koning

(University of Calgary, Canada)

“QUARK NOVA INTERPRETATION OF THE 13 keV EMISSION FEATURE SEEN IN THREE ANOMALOUS X-RAY PULSARS.”



Anomalous X-ray Pulsars (AXPs) are solitary objects characterized by persistent emission, X-ray pulsations and a rapid spin down. Occasionally AXPs go through a bursting phase which resemble those of Soft Gamma Repeaters (SGRs). Over the past decade, three AXPs have exhibited significant emission features at 13 keV which prove difficult to explain theoretically. Often regarded as cyclotron in nature, we explore the idea that they are indeed atomic transitions, which if true provides a wealth of information concerning the environment around AXPs. This provides strong constraints on theoretical models, including the Quark Nova model which we investigate here.