EPSC Abstracts Vol. 6, EPSC-DPS2011-1820, 2011 EPSC-DPS Joint Meeting 2011 © Author(s) 2011



Upsilon Andromedae system dynamics

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Abstract

In this article we focus in the study of the dynamics of the 3:1 Mean Motion Resonance between v Andd and the recently discovered v And-e. We observe the previously reported apsidal resonance between vAnd-c and v And-d. We observe that v And-d and vAnd-e are in an apsidal resonance too. The solution reported by Curiel et al. 2011 seems to be in the middle of a stability island. Additionally, we performed a 100 Myrs numerical integration of the Curiel et al. 2011 solution and found to be stable.

Acknowledgements

CC thanks the CONACyT postdoctoral program for its financial support. This research has been supported by CONACyT grant 128563.

References

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