

## Comparative Aeronomy – Jupiter and Saturn

Comparative exploration of upper atmospheres (mesospheres, thermospheres, ionospheres) across the solar system (“Comparative aeronomy”) takes our minds beyond the fascination of individual environments. Instead, it serves the ultimate purpose of obtaining a universal understanding of drivers in these environments such as the flow of energy and momentum, ion and neutral composition, waves, variability and how these change across the solar system. After Cassini’s 17-year orbital tour around Saturn and the final plunge into the atmosphere, we have learnt and continue to learn much about the aeronomy of Saturn. But in how far can we adopt this knowledge to Jupiter, are we better equipped for understanding the main drivers of its upper atmosphere? Are we approaching a universal understanding of gas giant planets or is this ambition defeated by their diversity and complexity?



**Thursday, February 15th**

4:00-5:00 p.m.

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