**Biblio Biarritz – Ecole Ariel 2 – 2-10 octobre 2021**

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**On-line curse :**

A special mention for documents provided by Emmanuel Marcq on-line course availablel on the website <http://sesp.esep.pro> : thermal structure of atmospheres (in French)

**Monographies :**

* Sushil K. Atreya  *Atmospheres and Ionospheres of the Outer Planets and Their Satellites* Springer Verlag, 1986.
* J.T. Houghton *The Physics of Atmospheres*. Cambridge University Press, 1977.
* Lopez-Puertas, M. and Taylor, F.W. Non-LTE *radiative transfer in the atmosphere*. World Scientific. 2001
* Tinetti, Giovanna; Drossart, Pierre; Eccleston, Paul et al., *A chemical survey of exoplanets with ARIEL*. 2018ExA....46..135T

**Articles :**

1. **General**

* Giovanna Tinetti, Thérèse Encrenaz & Athena Coustenis *Spectroscopy of planetary atmospheres in our Galaxy*. The Astronomy and Astrophysics Review volume 21,

1. **Photometry and phase curves**

* Pearl, J. C.; Conrath, B. J.; Hanel, R. A.; Pirraglia, J. A.; Coustenis, A. *The albedo, effective temperature, and energy balance of Uranus, as determined from Voyager IRIS data*. Icarus, Volume 84, Issue 1, p. 12-28. 1990
* Hanel, R. A.; Conrath, B. J.; Kunde, V. G.; Pearl, J. C.; Pirraglia, J. A. *Albedo, internal heat flux, and energy balance of Saturn. I*carus, Volume 53, Issue 2, p. 2
* Hanel, R.; Conrath, B.; Herath, L.; Kunde, V.; Pirraglia, J. *Albedo, internal heat, and energy balance of Jupiter: preliminary results of the voyager infrared investigation.* Journal of Geophysical Research, Volume 86, Issue A10, p. 8705-8712. 1983
* Dyudina, Ulyana; Zhang, Xi; Li, Liming; Kopparla, Pushkar; Ingersoll, Andrew P.; Dones, Luke; Verbiscer, Anne; Yung, Yuk L. *Reflected Light Curves, Spherical and Bond Albedos of Jupiter- and Saturn-like Exoplanets.*  The Astrophysical Journal, Volume 822, Issue 2, article id. 76, 10 pp. (2016). 2016
* Charnay, B.; Blain, D.; Bézard, B.; Leconte, J.; Turbet, M.; Falco, A. *Formation and dynamics of water clouds on temperate sub-Neptunes: the example of K2-18b.* 2021A&A...646A.171C

1. **Polarization on Venus and cloud parameters**

* Hansen, J.E and Hovenier, J.W. *Interpretation of the polarization of Venus.* J. Atmos. Phys. 31, 1137. 1974.
* West, R.D. *Cassini ISS Observations of Jupiter's Polar Haze.* 2001DPS....33.0307W

1. **Escape phenomena**

* Chamberlain, Joseph W. Interplanetary Gas.II*. Expansion of a Model Solar Corona.* Astrophysical Journal, vol. 131, p.47. 1960
* Parker, Eugene Newman *Interplanetary dynamical processes.*  New York, Interscience Publishers, 1963.
* Strobel, D. *Atmospheric Escape.* Planet. Space Sci. Pluto special issue, 2019.
* Volkov, Alexey N.; Johnson, Robert E.; Tucker, Orenthal J.; Erwin, Justin T. *Thermally Driven Atmospheric Escape: Transition from Hydrodynamic to Jeans Escape.*  The Astrophysical Journal Letters, Volume 729, Issue 2, article id. L24, 5 pp. (2011).2011
* Volkov, A. N., Tucker, O. J., Erwin, J. T., & Johnson, R. E. 2011, Phys. Fluids, 2011

1. **Non-LTE effects in planetary atmospheres and exoplanets**

* Moreels, G.; Clairemidi, J.; Faivre, M.; Pautet, D.; Rubio da Costa, F.; Rousselot, P.; Meriwether, J. W.; Lehmacher, G. A.; Vidal, E.; Chau, J. L.; Monnet, G. *Near-infrared sky background fluctuations at mid- and low latitudes.* Experimental Astronomy, Volume 22, Issue 1-2, pp. 87-107. 2008
* Drossart, P. *H3+ as an ionospheric sounder of Jupiter and giant planets : an observational perspective.* Philosophical Transactions Royal Society A. 377 (2019)
* Gilli, G.; López-Valverde, M. A.; Funke, B.; López-Puertas, M.; Drossart, P.; Piccioni, G.; Formisano, V. *Non-LTE CO limb emission at 4.7μm in the upper atmosphere of Venus, Mars and Earth: Observations and modeling.* Planetary and Space Science, Volume 59, Issue 10, p. 1010-1018. 2011
* Waldmann, I. P.; Tinetti, G.; Drossart, P.; Swain, M. R.; Deroo, P.; Griffith, C. A*. Ground-based Near-infrared Emission Spectroscopy of HD 189733b.* The Astrophysical Journal, Volume 744, Issue 1, article id. 35, 11 pp. (2012).