

***Prof. Michel HERMAN***

**ULB – Faculté des Sciences  
Service de Chimie Quantique et Photophysique**

<https://www.ulb.ac.be//cpm/people/mherman/main.html>

***SEMINAR***

***«High Resolution Molecular Spectroscopy:  
Trends and Tales»***

**Friday 21 April 2017 – 02.00 pm**

**Auditoire CYCL01**

**Chemin du Cyclotron, 2, Louvain-La-Neuve**

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## **ABSTRACT**

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The seminar will highlight present trends and recent achievements in the field of high-resolution molecular spectroscopy. These will be further illustrated using results from the “Laboratoire de Chimie quantique et Photophysique” at ULB. More specifically, laser instrumental developments and investigation of vibrational overtones in prototype species including molecular van der Waals complexes will be presented. The seminar will also address non-specialists in the field.

Keywords include: cavity-ring-down spectroscopy; Fourier transform spectroscopy; vibrational overtones; effective global Hamiltonians; intramolecular dynamics; water complexes, remote sensing, intramolecular vibrational redistribution.

## **BIOGRAPHY**

Michel **Herman**, born in 1951, studied at ULB-Brussels where he graduated (1973) got his Ph.D. (1977) and habilitation (1985). He was “Research Associate” (1977/1978) in Gerhard Herzberg’s laboratory at NRCC-Ottawa. He returned to ULB on a research position with the “FNRS-Belgium”, up to “Research Director” (1990), then became “Full Professor” (1997) and Co-Directeur of the “Laboratoire de Chimie Quantique et Photophysique” (2003) at ULB. He is Emeritus Professor since October 2017. He received the “Prix Louis d’Or” from the “Société Royale des Sciences de Liège” (1986), a “Francqui Chair” at the “Universiteit Antwerpen (Belgium)” (2008), and was invited Professor in France, Japan, Italy and Taiwan. He is co-author of more than 220 publications in international, refereed journals.

His major research field is high-resolution overtone spectroscopy of both isolated and van der Waals species, including acetylene, in particular, with both theoretical and instrumental contributions.

