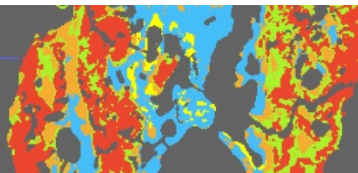


# StatIR 5

Multivariate data analysis of  
Infrared Microspectroscopy data  
October 24-26, 2018 - Synchrotron SOLEIL



Bâtiment T5, 1<sup>er</sup> étage, Salle T5.1.55

## Programme

	October 24 <sup>th</sup> , 2018		October 25 <sup>th</sup> , 2018		October 26 <sup>th</sup> , 2018
08:00 – 08:30	Welcome				
08:30 - 10:30	SESSION 1: Introduction to multivariate statistical analysis for IR: the need for MVA	08:30 – 10:30	SESSION 1: Principal Component Analysis: theory	08:30 – 09:30	SESSION 1: Imaging: Theory
10:30 – 10:45	<i>Coffee break</i>	10:30 – 10:45	<i>Coffee break</i>	09:30 – 09:45	<i>Coffee break</i>
10:45 – 12:15	SESSION 2: Preparing data: -basic preprocessing methods -advanced preprocessing methods.	10:45 – 12:45	SESSION 2: Principal Component Analysis: practical (Unscrambler X)	09:45 – 11:45	SESSION 2: Imaging: Practical (Orange)
12:15 – 13:30	<i>Lunch</i>	12:45 – 13:45	<i>Lunch</i>	11:45 – 12:15	Discussion and conclusions
13:30 – 14:30	SESSION 3: Introduction to unsupervised clustering methods.	13:45 – 15:45	SESSION 3: Introduction to Supervised Regression and Classification methods: KNN, PCR, PLSR, PLSDA, MCR-ALS		
14:30 – 15:30	SESSION 4: Introduction to Orange and Unscrambler software				
15:30 – 15:45	<i>Coffee break</i>	15:45 – 16:00	<i>Coffee break</i>		
15:45 – 17:45	SESSION 5: Unsupervised clustering methods Practical : (Orange/Unscrambler)	16:00 – 17:30	SESSION 4: Advanced clustering methods (RFC, ANN)		
		17:30 – 18:00	BEAMLIN VISIT		