## Multivariate Spatio-temporal SWGEN with latent regimes

## Valérie Monbet

In this talk, we propose a Markov Switching model which is based on non-separable cross- covariance functions for multivariate space-time data. This model is built as a stochastic weather generator and it is applied to simulate weather data on a large West part of France. The learning data set included several stations and 4 variables.