

ATELIER NSDC « ANALYSE DE DONNÉES DIRECTIONNELLES AVEC APPLICATIONS EN BIOMÉCANIQUE  
ET EN IMAGERIE MÉDICALE »

25–27 NOVEMBRE 2009

**NICDS WORKSHOP “THE ANALYSIS OF DIRECTIONAL DATA WITH APPLICATIONS TO  
BIOMECHANICS AND BIOMEDICAL IMAGING”**

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## Wishart Distributions for Graphical Gaussian Models

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Graphical models are statistical models built to work with high-dimensional data and to be able to express various dependences and conditional independences between the variables considered. When the variables follow a Gaussian distribution, one is lead to work with matrix variates which follow distributions that are not classical. We will review the development of the last ten years in this area as well as their applications.