Integrability of Dirac Structures and the Deformation Quantization of Poisson Manifolds

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This lecture has two parts: In the first part we introduce the notion of Dirac structures on vector bundles and the integrability of there structures. We also try to find some conditions for the integrability of there structures. In the second part, the poisson geometry is reviewed and the deformation quantization of poisson manifolds is introduced.