## Lagrangians and Hamiltonian Structures and Foliations

Paul Popescu and Marcela Popescu
Department of Applied Mathematics, University of Craiova
paul\_p\_popescu@ yahoo.com, marcelacpopescu@ yahoo.com

## Abstract

The purpose of this note is to find a new criteria by which a foliation is Riemannian. We construct an integration operator and prove that the existence of a positively admissible and transverse Hamiltonian implies that the foliation is Riemanian.