

1116-VW-2509

**Yun Myung Oh\*** (ohy@andrews.edu), Department of Mathematics, 4260 Administration Dr., Andrews University, Berrien Springs, MI 49104-0350. *Riemannian submersion and Lagrangian isometric immersion II.*

For a Riemannian submersion  $\pi : M^n \rightarrow B^b$  with totally geodesic fibers, the invariant  $\check{A}_\pi = \sum_{i=1}^b \sum_{s=b+1}^n \|A_{e_i} e_s\|^2$  was introduced using the integrability tensor of the submersion. B. Y. Chen has provided the inequality on this invariant if the manifold  $M$  admits an isometric immersion into a Riemannian manifold  $\tilde{M}^m$ . In this talk, we will discuss on the recent work on this invariant if  $M$  admits a Lagrangian isometric immersion. (Received September 22, 2015)