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Yingying Zhang* (yiz308@lehigh.edu), 14 E. Packer Ave, Department of Mathematics,
Bethlehem, PA 18015. *Geometric Quantization of Weil-Petersson Metric of the Moduli Space of
Fano Kähler-Einstein manifolds.*

Based on Kodaira-Spencer's complex deformation theory, I will talk about the geometric quantization of the Weil-Petersson metric on the moduli space of compact Fano kähler-Einstein manifolds. As a result, we can show that after normalization, the convergence behavior of the Ricci Curvature of the L^2 metric on the direct image sheaf can be related to the Weil-Petersson metric on the moduli space. (This is the joint work with Huai-Dong Cao and Xiaofeng Sun) (Received January 26, 2014)