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Song-Ying Li* (sli@math.uci.edu), Department of Mathematics, 430 Rowland Hall, University of California at Irvine, Irvine, CA 92697-3875, and **Duong Ngoc Son**. *d-bar-Bochner formulae for maps from pseudo-Hermitian manifolds to Kahler manifolds and applications.*

In this talk, I will present some recent work jointly with Duong Ngoc Son. We establish various Bochner formulae for maps from a pseudo-Hermitian CR manifold to a Kahler manifold. As applications, I will introduce Siu's super-Rigidity theorem for harmonic maps between two Kahler manifolds, and I will present our results on the pseudo-Hermitian case. (Received August 13, 2015)