

***CVI AND THEIR ASSOCIATED FORMALLY SELF-ADJOINT
CONFORMALLY COVARIANT POLYDIFFERENTIAL
OPERATORS***

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Abstract: Conformally variational scalar Riemannian invariant (CVI) is a collection of many fundamental scalar-type curvatures which has many good properties in both conformal and Riemannian geometry. As the most popular examples of CVI, scalar curvature and Q-curvature has been studied extensively in the past decades and these researches still inspire many new works so far. In this talk, I will give a brief introduction about our working frame about CVI and present some of the interesting results especially focusing on our recent work about their associated polydifferential operators. These series of works are joint with Jefferey Case and Yueh-Ju Lin.