



Selected Expository Works of Shing-Tung Yau with Commentary, Volume I (Vol. 28 of the Advanced Lectures in Mathematics series)

Shing-Tung Yau (Harvard University), [various contributors]

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Shing-Tung Yau's work is mainly in differential geometry, and he is one of the originators of the broad subject of geometric analysis - in which he remains one of the most active participants. His contributions have had an influence on both physics and mathematics, and he has long been active at the interface between geometry and theoretical physics. His proof of the positive energy theorem in general relativity demonstrated - sixty years after its discovery - that Einstein's theory is consistent and stable. His proof of the Calabi conjecture allowed physicists - using Calabi-Yau compactification - to show that string theory is a viable candidate for a unified theory of nature. Calabi-Yau manifolds are part of the standard toolkit of string theorists today. He was awarded the Fields Medal in 1982 and the Wolf Prize in 2010, and has received many other honors.

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