

1104-53-35

Peng Wu* (wupenguin@math.cornell.edu). *A Weitzenböck formula for generalized quasi-Einstein manifolds.*

In this talk we will first provide an alternative proof of Derdziński's Weitzenböck formula for Einstein four-manifolds using Berger curvature decomposition. Using a similar argument, we will derive a Weitzenböck formula for four-dimensional generalized quasi-Einstein manifolds. We will also discuss applications of the Weitzenböck formula. (Received July 16, 2014)