Abstract

This talk, as a second part of the «Applications of a fundamental differential system of Riemannian geometry», recently presented in Chern Institute of Mathematics, is concerned with two of those applications. First, we prove new integral identities of Minkowski type for the higher degree mean curvatures of hypersurfaces. Second, we recall a formula of Allendoerfer or Gauss-Bonnet-Chern for the Euler characteristic of closed hypersurfaces in space forms.