

1154-53-663

**Bang-Yen Chen\*** ([chenb@msu.edu](mailto:chenb@msu.edu)), 2231 Tamarack Drive, Okemos, MI 48864. *Two-numbers and applications.*

The 2-number is a numerical invariant which assigns an integer to a Riemannian manifold  $M$  introduced in one of my joint articles with Professor T. Nagano. In this talk, I will present relationships between 2-number and several important areas of mathematics. Also, I will mention applications of 2-number to some important subjects in mathematics. At the end of my talk, I will present three conjectures on 2-number. (Received September 09, 2019)