1035-94-972 **Dae San Kim*** (dskim@sogang.ac.kr), Department of Mathematics, Sogang University, Seoul, 121-742, South Korea. Weight Distributions of Hamming codes.

We derive a recursive formula determining the weight distribution of the $[n = (q^m - 1)/(q - 1), n - m, 3]$ Hamming code H(m, q), when (m, q - 1) = 1. Here q is a prime power. The proof is based on Moisio's idea of using Pless power moment identity together with exponential sum techniques. (Received September 17, 2007)