

1086-11-171

Hayan Nam* (hayannam@yonsei.ac.kr), Department of Mathematics, Yonsei University, Seoul, 120-749, South Korea, **SeungKyung Park** (sparky@yonsei.ac.kr), Department of Mathematics, Yonsei University, Seoul, 120-749, South Korea, and **Jaebum Sohn** (jsohn@yonsei.ac.kr), Department of Mathematics, Yonsei University, Seoul, 120-749, South Korea. *A generalization of the pentagonal number theorem.*

In this talk, we first define a model that is called Fix-Project model and using it to prove the Euler's pentagonal number theorem. Also we provide some new identities that generalize the Euler's pentagonal number theorem. (Received August 02, 2012)