

ZMATH 2008a.00005

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Happy 300th birthday, Leonhard! – continued.

SYMMetryplus, No. 34, 10-11 (2007).

The article briefly presents some of the more advanced things Euler did, such as his “4 squares identity”, Euler’s proofs of several theorems by Fermat, the introduction of several new functions into mathematics, and his contributions for applied mathematics, especially the calculus of variations. In the end, a few comments are made on the gigantic extent of Euler’s mathematical work. *Peter Dürr (Linkenheim)*

Classification: A30

Keywords: algebraic identities; infinite products; trigonometric functions; calculus; prime numbers; number theory; Gamma function; Zeta function; Euler-Lagrange equation; mathematicians