The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Pure Mathematics

Hypergeometric identities, fractional calculus and Erdélyi-type integrals

By

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Abstract

We extend one of Erdelyi's classical integrals for the Gauss hypergeometric functions to a special class of generalized hypergeometric functions in which certain pairs of numerator and denominator parameters differ by positive integers. The main results are achieved by using some basic facts from Fractional Calculus and non-classical hypergeometric identities. A brief introduction to the history of these hypergeometric identities will be given.

Date: Thursday, 5 July 2018
Time: 4:30p.m. - 5:30p.m.
Venue: Room 4475, Academic Building (Lifts 25, 26), HKUST

All are welcome!