



**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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***City University of Hong Kong***

**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!***